

CHILODONELLA-UNCINATA -- 1 instance  
 TRICHOMOSTOMA -- 1 instance  
 OXYTRICHA -- 1 instance  
 CARNIVOROUS-CILIATES  
 COLERS-HIRTUS -- 1 instance  
 PROPODON -- 1 instance  
 SPATHIDUM -- 1 instance  
 FLAECOLAMA -- 1 instance  
 LINDORHUS -- 1 instance  
 AMPHEPTUS -- 1 instance  
 ACINEIRA -- 1 instance  
 PODOPHRIA -- 1 instance  
 TONOPHRIA -- 1 instance  
 OTHER-CARNIVOROUS-CILIATES -- 1 instance  
 METAZOA  
 NEMATODE -- 1 instance  
 ROTIFERS -- 1 instance  
 TARDIGRADI -- 1 instance  
 GASTROTRICHI -- 1 instance  
 OLIGOCHETA -- 1 instance  
 OTHER-METAZOA -- 1 instance  
 BACTERIA  
 FILAMENTOUS-BACTERIA  
 TYPE-0961 -- 1 instance  
 TYPE-0581 -- 1 instance  
 NOSTOCIDA-LIMICOLA -- 1 instance  
 TYPE-0914 -- 1 instance  
 NOCARDIA-SPP -- 1 instance  
 TYPE-1701 -- 1 instance  
 SPHAROTILIUS-NATANS -- 1 instance  
 TYPE-021N -- 1 instance  
 THIOTRIX-SPP -- 1 instance  
 TYPE-0041 -- 1 instance  
 TYPE-0675 -- 1 instance  
 BEGGIATOX-SPP -- 1 instance  
 MICROTRIX-PARVICELLA -- 1 instance  
 TYPE-1851 -- 1 instance  
 TYPE-0092 -- 1 instance  
 HALISCOMENOBACTER-HYDROSSIS -- 1 instance  
 OTHER-FILAMENTOUS-BACTERIA -- 1 instance  
 FLEXIBACTER -- 1 instance  
 TYPE-0803 -- 1 instance  
 CIANOFICIES -- 1 instance  
 OTHER-BACTERIA -- 1 instance  
 FUNGHI -- 1 instance  
 ZOOLEA -- 1 instance  
 MICRO-ORG -- 1 instance  
 PROCESS-PARAMETER  
 HYDRAULIC-RETENTION-TIME -- 1 instance  
 MEAN-CELL-RETENTION-TIME -- 1 instance  
 MICROORGANISM-QUANTITY -- 1 instance  
 IN-LINE-DATABASE  
 CALIBRATION-SCHEDULE 3 instances  
 REACTOR-STATE -- 3 instances  
 MANRESA  
 PROCESS-EQUIPMENT  
 DECANADOR  
 | CLARIFICADOR  
 | DECANADOR-1  
 BASSES  
 ARQUETA  
 PISCINA  
 FONT  
 REIXES  
 REIXA-GRUIXITS  
 REIXA-PRIMS  
 REIXES-MANUALS  
 DESARENADOR  
 VAL-MANUAL  
 RIU  
 MOTOR  
 TURBINA  
 TURBINA-1-M  
 TURBINA-2-M  
 C-ARQUIMEDES  
 BOMBA

ELECTROV-MLVULA  
 JERRERO -- 12 instances  
 JERRAROMULT -- 1 instance  
 CILLIS -- 1 instance  
 ARROW  
 ARROW-RIGHT  
 ARROW-LEFT  
 ARROW-UP  
 ARROW-DOWN  
 CARACT-MICROORGANISMES -- 1 instance  
 DEFINITION  
 OBJECT-DEFINITION -- 261 instances  
 CONNECTION-DEFINITION -- 36 instances  
 MESSAGE-DEFINITION -- 9 instances  
 IMAGE-DEFINITION -- 8 instances  
 RELATION -- 7 instances  
 FRAME-STYLE-DEFINITION -- 1 instance  
 STATEMENT  
 LANGUAGE-TRANSLATION -- 21 instances  
 GENERIC-FORMULA -- 4 instances  
 GENERIC-SIMULATION-FORMULA -- 1 instance  
 RULE -- 450 instances  
 FUNCTION-DEFINITION  
 UNITS-OF-MEASURE-DECLARATION -- 1 instance  
 REMOTE-PROCEDURE-DECLARATION -- 1 instance  
 FOREIGN-FUNCTION-DECLARATION  
 FREE-TEXT -- 176 instances  
 BORDERLESS-FREE-TEXT -- 324 instances  
 LOGBOOK-PAGE -- 6 instances  
 MESSAGE -- 22 instances  
 UIL-MESSAGE  
 UIL-GRMES  
 UIL-TEXT  
 UIL-SMALL-TEXT  
 UIL-MEDIUM-TEXT -- 6 instances  
 UIL-LARGE-TEXT  
 UIL-ERROR-TEXT  
 UIL-ERROR-TEXT-SMALL  
 UIL-PRIVATE-MASTER-DIALOG-TEXT  
 MESSAGE-BOARD -- 1 instance  
 USER-MENU-CHOICE -- 2 instances  
 TEXT-INSERTER  
 WORD-INSERTER  
 CHARACTER-INSERTER  
 CHARACTER-SEQUENCE-INSERTER  
 SIMULATION-SUBTABLE  
 TABULAR-FUNCTION  
 TABULAR-FUNCTION-OF-1-ARG  
 G2-STREAM  
 PROCEDURE -- 244 instances  
 | METHOD-DECLARATION  
 | METHOD  
 PROCEDURE-INVOCATION  
 DIAL  
 METER  
 READOUT-TABLE -- 23 instances  
 | DIGITAL-CLOCK -- 2 instances  
 TREND-CHART -- 54 instances  
 CHART  
 FREEFORM-TABLE  
 MODEL-DEFINITION  
 GSI-MESSAGE-SERVICE  
 EXTERNAL-SIMULATION-DEFINITION  
 ACTION-BUTTON -- 127 instances  
 CHECK-BOX -- 8 instances  
 RADIO-BUTTON -- 39 instances  
 SLIDER  
 TYPE-IN-BOX -- 31 instances

OBJETOS DEFINIDOS EN EL SISTEMA EXPERTO DESARROLLADO  
 /...../  
 /...../

\*\* GenSYM G2 Knowledge Base Inspection Output  
 \*\* From Xa: /usr/users/Juan/Super/Kbtemporal.kb  
 \*\* File: /quantum/Juan/dmp/object-def-jb.gp  
 \*\* Written at: 18 Jun 99 3:17:44 p.m.

\*\* Command:  
 write to the file "/quantum/juan/dmp/object-def-  
 jb" every object-definition containing the word  
 deb or containing the word juan

\*\* Results follow this line:

Notes G2-g2, an object-definition  
 OK, but some superior item is either DISABLED or  
 not OK.  
 deb (8 Jun 1998 7:38 p.m.)  
 Authors  
 Class name G2-g2  
 Direct superior classes G2-to-g2-data-service, float-variable  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path G2-g2, G2-to-g2-data-service, float-variable,  
 quantitative-variable, G2-variable, variable,  
 variable-or-parameter, object, item  
 Inherited attributes none  
 Attribute initializations validity interval: indefinite  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

OTHER-CARNIVOROUS-CILIATES, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:16 p.m.)  
 Class name other-carnivorous-ciliates  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-carnivorous-ciliates, carnivorous-ciliates,  
 ciliates, protozoa, microfauna, microorganism,  
 object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TOKOPHYTA, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:15 p.m.)  
 Class name Tokophyta  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path Tokophyta, carnivorous-ciliates, ciliates,  
 protozoa, microfauna, microorganism, object,  
 item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

PODOPHYTA, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:15 p.m.)  
 Class name Podophyta  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path podophyta, carnivorous-ciliates, ciliates,  
 protozoa, microfauna, microorganism, object,  
 item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

ACTINETA, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:14 p.m.)  
 Class name Actineta  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path actineta, carnivorous-ciliates, ciliates, protozoa,  
 microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

AMPHIPTERUS, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:14 p.m.)  
 Class name Amphipterus  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path amphipterus, carnivorous-ciliates, ciliates,  
 amphipterus, carnivorous-ciliates, ciliates,  
 protozoa, microfauna, microorganism, object,  
 item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

LITONOTHUS, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:14 p.m.)  
 Class name Litonothus  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path litonothus, carnivorous-ciliates, ciliates,  
 protozoa, microfauna, microorganism, object,  
 item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

PLAGIOCOMPA, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:04 p.m.)  
 Class name oxytricha  
 Direct superior classes -crawling-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path oxytricha, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## TRITHIGMOSTOMA, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:04 p.m.)  
 Class name trithigmostoma  
 Direct superior classes crawling-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path trithigmostoma, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## CHILODONELLA-UNCINATA, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:04 p.m.)  
 Class name chilodonella-uncinata  
 Direct superior classes crawling-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path chilodonella-uncinata, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## TROCHILIA, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:03 p.m.)  
 Class name trochilia  
 Direct superior classes crawling-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path trochilia, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## STYLONCHIA, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:03 p.m.)  
 Class name stylonchia  
 Direct superior classes crawling-ciliates

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:13 p.m.)  
 Class name plagiocampa  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path plagiocampa, carnivorous-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## SPATHIDIUM, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:13 p.m.)  
 Class name spathidium  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path spathidium, carnivorous-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## PROBODON, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:13 p.m.)  
 Class name probodon  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path probodon, carnivorous-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## COLEPS-HIRTUS, an object-definition

OK  
 Notes  
 Authors Juan (21 Jan 1998 6:12 p.m.)  
 Class name coleps-hirtus  
 Direct superior classes carnivorous-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path coleps-hirtus, carnivorous-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

## OXYTRICHA, an object-definition

OK  
 Notes

Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path aspidisca-cicada, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**EUPLOTES-PATELLA, an object-definition**  
 OK  
 Notes Juan (21 Jan 1998 6:03 p.m.)  
 Authors euplotres-patella  
 Class name euplotres-affinis  
 Direct superior classes crawling-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path euplotres-affinis, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**ASPIDISCA-LYNCEUS, an object-definition**  
 OK  
 Notes Juan (21 Jan 1998 6:03 p.m.)  
 Authors aspidisca-lynceus  
 Class name aspidisca-cicada  
 Direct superior classes crawling-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path aspidisca-lynceus, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**ASPIDISCA-CICADA, an object-definition**  
 OK  
 Notes Juan (21 Jan 1998 6:02 p.m.)  
 Authors aspidisca-cicada  
 Class name aspidisca-cicada  
 Direct superior classes crawling-ciliates  
 Class specific attributes none

Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path aspidisca-cicada, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**OTHER-CRAWLING-CILIATES, an object-definition**  
 OK  
 Notes Juan (26 Jan 1998 11:16 a.m.)  
 Authors other-crawling-ciliates  
 Class name crawling-ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-crawling-ciliates, crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**OTHER-ATTACHED-CILIATES, an object-definition**  
 OK  
 Notes Juan (21 Jan 1998 6:12 p.m.)  
 Authors other-attached-ciliates  
 Class name attached-ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-attached-ciliates, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**STENTOR, an object-definition**  
 OK  
 Notes Juan (21 Jan 1998 6:10 p.m.)  
 Authors stentor  
 Class name attached-ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path stentor, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**VAGINICOLA, an object-definition**  
 OK  
 Notes Juan (21 Jan 1998 6:09 p.m.)  
 Authors vaginicola  
 Class name attached-ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none

Menu option a final menu choice  
 Class inheritance path vagnipicola, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**EPISTYLIS, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:09 p.m.)  
 Class name epistylis  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path epistylis, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**OPERCULARIA, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:09 p.m.)  
 Class name opercularia  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path opercularia, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**ZOOHAMMILUM, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:08 p.m.)  
 Class name zoohammulum  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path zoohammulum, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**CARCHESIUM, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:08 p.m.)  
 Class name carchesium  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path carchesium, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**VORTICELLA-MICROSTOMA, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:08 p.m.)  
 Class name vorticella-microstoma  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path vorticella-microstoma, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**VORTICELLA-AQUADULCIS, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:07 p.m.)  
 Class name vorticella-aquadulcis  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path vorticella-aquadulcis, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**VORTICELLA-CONVALLARIA, an object-definition**  
 OK  
 Authors Juan (21 Jan 1998 6:07 p.m.)  
 Class name vorticella-convallaria  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path vorticella-convallaria, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

**SPIROSTOMUM, an object-definition**  
 OK  
 Authors Juan (22 Jan 1998 12:08 P.m.)  
 Class name spirostomum  
 Direct superior classes attached-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path spirostomum, attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes SATHROPHILUS, an object-definition  
 OK  
 Juan (21 Jan 1998 5:56 p.m.)

Authors  
 Class name bathrophilus  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path bathrophilus, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes URONEMA, an object-definition  
 OK  
 Juan (21 Jan 1998 5:55 p.m.)

Authors  
 Class name uronema  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path uronema, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes TETRAHYMENA, an object-definition  
 OK  
 Juan (21 Jan 1998 5:55 p.m.)

Authors  
 Class name tetrahymena  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path tetrahymena, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes PARAMECIUM-CAUDATUM, an object-definition  
 OK  
 Juan (21 Jan 1998 5:55 p.m.)

Authors  
 Class name paramecium-caudatum  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path paramecium-caudatum, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none

Attribute displays inherited  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes GLAUCOMA, an object-definition  
 OK  
 Juan (21 Jan 1998 5:54 p.m.)

Authors  
 Class name glaucoma  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path glaucoma, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes CYCLIDIUM, an object-definition  
 OK  
 Juan (21 Jan 1998 5:54 p.m.)

Authors  
 Class name cyclidium  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path cyclidium, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes COLPIDIUM, an object-definition  
 OK  
 Juan (21 Jan 1998 5:53 p.m.)

Authors  
 Class name colpidium  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path colpidium, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes CINETOCHILUM-MARGARITACEUM, an object-definition  
 OK  
 Juan (21 Jan 1998 5:51 p.m.)

Authors  
 Class name cinetochilum-margaritaceum  
 Direct superior classes swimming-ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path cinetochilum-margaritaceum, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item

Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable

Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

OTHER-SWIMMING-CILIATES, an object-definition  
 OK  
 Notes Juan (21 Jan 1998 6:02 p.m.)  
 Authors other-swimming-ciliates  
 Class name swimming-ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-swimming-ciliates, swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

CARNIVOROUS-CILIATES, an object-definition  
 OK  
 Notes Juan (21 Jan 1998 5:09 p.m.)  
 Authors carnivorous-ciliates  
 Class name ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path carnivorous-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

CRAWLING-CILIATES, an object-definition  
 OK  
 Notes Juan (21 Jan 1998 5:09 p.m.)  
 Authors crawling-ciliates  
 Class name ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path crawling-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

ATTACHED-CILIATES, an object-definition  
 OK  
 Notes deb (18 Jun 1998 5:24 p.m.), Juan  
 Authors attached-ciliates  
 Class name ciliates  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path attached-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description width 50; height 50; lines (41, 12) arc (34, 17) (25, 17); lines (24, 15) arc (29, 9) (37, 6); lines (37, 6) arc (38, 9) (41, 11); lines (42, 12) (43, 11) (40, 10) (43, 9) (39, 9) (40, 7) (38, 7) (38, 6) (38, 7) (37, 4);

lines (24, 17) arc (16, 27) (11, 42); lines (36, 22) arc (25, 25) (22, 27); lines (22, 27) arc (25, 25) (34, 31); lines (36, 22) arc (36, 27) (35, 30); lines (21, 27) arc (16, 28) (14, 32); outline (32, 25) (33, 24) (34, 25); circle (30, 12) (28, 14) (31, 16) (33, 13); circle (31, 9) (33, 7) (35, 9)

SWIMMING-CILIATES, an object-definition  
 OK  
 Notes Juan (21 Jan 1998 4:14 p.m.)  
 Authors swimming-ciliates  
 Class name swimming-ciliates  
 Direct superior classes ciliates  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path swimming-ciliates, ciliates, protozoa, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

GSI-MEASURE, an object-definition  
 OK  
 Notes Juan (8 Jan 1998 12:01 p.m.)  
 Authors gsi-measure  
 Class name gsi-variable  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path gsi-measure, gsi-variable, quantitative-variable, variable-or-parameter, object, item  
 Inherited attributes localization is a symbol, initially is g2; function is a symbol, initially is g2; parameter is a symbol, initially is g2; function initially is medida; validity interval: 2 minutes; default update interval: 1 minute; history keeping spec: do not keep history  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

GSI-SETPOINT, an object-definition  
 OK  
 Notes Juan (8 Jan 1998 12:02 p.m.)  
 Authors gsi-setpoint  
 Class name gsi-variable  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path gsi-setpoint, gsi-variable, quantitative-variable, variable-or-parameter, object, item  
 Inherited attributes localization is a symbol, initially is g2; function is a symbol, initially is g2; parameter is a symbol, initially is g2; function initially is consigna; validity interval: indefinite; default update interval: none; history keeping spec: do not keep history  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

CIANOFICIAS, an object-definition  
 OK  
 Notes deb (22 Jul 1998 6:32 p.m.)  
 Authors deb  
 Class name cianoficias

Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path clasoficlas, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes TPRS-0803, an object-definition  
 OK  
 deb (22 Jul 1998 6:31 p.m.)

Authors  
 Class name type-0803  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-0803, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes FLEXIBACTER, an object-definition  
 OK  
 deb (22 Jul 1998 6:31 p.m.)

Authors  
 Class name flexibacter  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path flexibacter, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes OTHER-FILAMENTOUS-BACTERIA, an object-definition  
 OK  
 Juan (26 Jan 1998 10:53 a.m.)

Authors  
 Class name other-filamentous-bacteria  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-filamentous-bacteria, filamentous-bacteria,  
 bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes HALISCOMONOBACTER-HYDROSISS, an object-definition  
 OK  
 Juan (21 Jan 1998 5:42 p.m.)

Authors  
 Class name haliscomonobacter-hydrosisis  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice

Class inheritance path haliscomonobacter-hydrosisis, filamentous-bacteria,  
 bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes TPRS-0092, an object-definition  
 OK  
 Juan (21 Jan 1998 5:41 p.m.)

Authors  
 Class name type-0092  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-0092, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes TPRS-1851, an object-definition  
 OK  
 Juan (21 Jan 1998 5:41 p.m.)

Authors  
 Class name type-1851  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-1851, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes TYPE-1863, an object-definition  
 OK  
 Juan (21 Jan 1998 5:40 p.m.)

Authors  
 Class name type-1863  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-1863, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

Notes MICROTRIX-PARVICELLA, an object-definition  
 OK  
 Juan (21 Jan 1998 5:39 p.m.)

Authors  
 Class name microtrix-parvicella  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path microtrix-parvicella, filamentous-bacteria,  
 bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none



Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

BEGGIATOA-SPP, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:39 p.m.)  
 Authors beggiatoa-spp  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path beggiatoa-spp, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-0675, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:38 p.m.)  
 Authors type-0675  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-0675, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-0041, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:37 p.m.)  
 Authors type-0041  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-0041, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

THIOTHRUX-SPP, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:36 p.m.)  
 Authors thiothrix-spp  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path thiothrix-spp, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-021N, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:35 p.m.)  
 Authors type-021n  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-021n, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

SPHAEROTILUS-NATANS, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:35 p.m.)  
 Authors sphaerotilus-natans  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path sphaerotilus-natans, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-1701, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:19 p.m.)  
 Authors type-1701  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path type-1701, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

NOCARDIA-SPP, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:18 p.m.)  
 Authors nocardia-spp  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path nocardia-spp, filamentous-bacteria, bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-0914, an object-definition

OK  
 Notes Juan (21 Jan 1998 5:39 p.m.)  
 Authors type-0914  
 Class name filamentous-bacteria  
 Direct superior classes none  
 Class specific attributes none

Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path Type-0914, filamentous-bacteria, bacteria.  
 Inherited attributes microorganism, object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

NOSTOCOIDA-LIMICOLA, an object-definition

Notes OK  
 Authors Juan (26 Jan 1998 11:02 a.m.)  
 Class name nostocoida-limicola  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path nostocoida-limicola, filamentous-bacteria,  
 bacteria, microorganism, object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-0581, an object-definition

Notes OK  
 Authors Juan (26 Jan 1998 6:00 p.m.)  
 Class name Type-0581  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path Type-0581, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TYPE-0961, an object-definition

Notes OK  
 Authors Juan (26 Jan 1998 6:00 p.m.)  
 Class name Type-0961  
 Direct superior classes filamentous-bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path Type-0961, filamentous-bacteria, bacteria,  
 microorganism, object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

OTHER-METAZOA, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:18 p.m.)  
 Class name other-metazoa  
 Direct superior classes metazoa  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-metazoa, metazoa, microfauna, microorganism,  
 object, item

Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

OLIGOCHETA, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:18 p.m.)  
 Class name oligocheta  
 Direct superior classes metazoa  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path oligocheta, metazoa, microfauna, microorganism,  
 object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

GASTROTRICHI, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:18 p.m.)  
 Class name gastrotrichi  
 Direct superior classes metazoa  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path gastrotrichi, metazoa, microfauna, microorganism,  
 object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

TARDIGRADI, an object-definition

Notes OK  
 Authors Juan (21 Jan 1998 6:17 p.m.)  
 Class name tardigradi  
 Direct superior classes metazoa  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path tardigradi, metazoa, microfauna, microorganism,  
 object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

ROTIFERS, an object-definition

Notes OK  
 Authors Juan (22 Jan 1998 6:14 p.m.)  
 Class name rotifers  
 Direct superior classes metazoa  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path rotifers, metazoa, microfauna, microorganism,  
 object, item  
 abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited

Icon description inherited

Notes NEMATODE, an object-definition  
OK  
Authors Juan (22 Jan 1998 6:14 p.m.)  
Class name nematode  
Direct superior classes metazoa  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path nematode, metazoa, microfauna, microorganism, object, item  
Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
Attribute initializations none  
Attribute displays inherited  
Stubs inherited  
Icon description inherited

Notes CILIATES, an object-definition  
OK  
Authors Juan (21 Jan 1998 4:15 p.m.)  
Class name ciliates  
Direct superior classes protozoa  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path ciliates, protozoa, microfauna, microorganism, object, item  
Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
Attribute initializations none  
Attribute displays inherited  
Stubs inherited  
Icon description inherited

Notes OTHER-OTHER-MICROFAUNA, an object-definition  
OK  
Authors Juan (21 Jan 1998 6:20 p.m.)  
Class name other-other-microfauna  
Direct superior classes other-microfauna  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path other-microfauna, other-microfauna, microfauna, microorganism, object, item  
Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
Attribute initializations none  
Attribute displays inherited  
Stubs inherited  
Icon description inherited

Notes DRAPANOMONAS, an object-definition  
OK  
Authors Juan (21 Jan 1998 6:20 p.m.)  
Class name drepanomonas  
Direct superior classes other-microfauna  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path drepanomonas, other-microfauna, microfauna, microorganism, object, item  
Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
Attribute initializations none  
Attribute displays inherited  
Stubs inherited  
Icon description inherited

Notes TRACHELOPHYLLUM, an object-definition  
OK  
Authors Juan (21 Jan 1998 6:19 p.m.)

Class name trachelophyllum  
Direct superior classes other-microfauna  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path trachelophyllum, other-microfauna, microfauna, microorganism, object, item  
Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
Attribute initializations none  
Attribute displays inherited  
Stubs inherited  
Icon description inherited

Notes ACINERA-UNCINATA, an object-definition  
OK  
Authors Juan (21 Jan 1998 6:19 p.m.)  
Class name acinera-uncinata  
Direct superior classes other-microfauna  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path acinera-uncinata, other-microfauna, microfauna, microorganism, object, item  
Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
Attribute initializations none  
Attribute displays inherited  
Stubs inherited  
Icon description inherited

Notes DO-PROBE, an object-definition  
OK  
Authors Juan (15 Dec 1997 5:49 p.m.)  
Class name do-probe  
Direct superior classes probe  
Class specific attributes none  
Instance configuration none  
Change none  
Menu option a final menu choice  
Class inheritance path do-probe, probe, measuring-device, instrumentation, object, item  
Inherited attributes measure-type is a symbol, initially is g2; min-value is a float, initially is 0.0; max-value is a float, initially is 0.0; calibration is a symbol, initially is ok; mark is a text, initially is ""  
status is a symbol, initially is ok; starting\_date is a text, initially is ""  
input\_signal\_type is a symbol, initially is none; input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
output\_signal\_type is a symbol, initially is none; output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
measure-type initially is do;  
input\_signal\_type initially is do-ppm;  
output\_signal\_type initially is ms;  
min-value initially is 0.0;  
max-value initially is 10.0  
inherited  
inherited  
width 12; height 72;  
extra-light-gray:  
filled circle (3, 69) (6, 66) (9, 69);  
black:  
filled rectangle (0, 7) (12, 25);  
filled rectangle (3, 25) (9, 68);  
filled rectangle (5, 0) (7, 7)

Notes T-PROBE, an object-definition  
OK

Attribute initializations  
Attribute displays  
Stubs  
Icon description

Attribute displays  
Stubs  
Icon description

Notes  
Authors

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Authors
  Juan (15 Dec 1997 5:49 p.m.)
Class name
  t-probe
Direct superior classes
  probe
Class specific attributes
  none
Instance configuration
  none
Change
  none
Menu option
  a final menu choice
Class inheritance path
  t-probe, probe, measuring-device, instrumentation,
  object, item
Inherited attributes
  measure-type is a symbol, initially is g2;
  min-value is a float, initially is 0.0;
  max-value is a float, initially is 0.0;
  calibration is a symbol, initially is ok;
  mark is a text, initially is "";
  model is a text, initially is "";
  status is a symbol, initially is ok;
  starting_date is a text, initially is "";
  input_signal_type is a symbol, initially is none;
  input_signal_value is given by a quantitative-
  variable, initially is given by a quantitative-
  variable;
  output_signal_type is a symbol, initially is none;
  output_signal_value is given by a quantitative-
  variable, initially is given by a quantitative-
  variable;
  variable
Attribute initializations
  measure-type initially is ph;
  input_signal_type initially is ph;
  output_signal_type initially is mw;
  min-value initially is 0.0;
  max-value initially is 14.0
Inherited
  width 12; height 75;
  red: filled rectangle (0, 9) (12, 27);
  
```

```

Notes
  OK
  deb (20 Jul 1998 5:32 p.m.), Juan
Authors
  Juan (15 Dec 1997 5:49 p.m.)
Class name
  orp-probe
Direct superior classes
  probe
Class specific attributes
  none
Instance configuration
  none
Change
  none
Menu option
  a final menu choice
Class inheritance path
  orp-probe, probe, measuring-device,
  instrumentation, object, item
Inherited attributes
  measure-type is a symbol, initially is g2;
  min-value is a float, initially is 0.0;
  max-value is a float, initially is 0.0;
  calibration is a symbol, initially is ok;
  mark is a text, initially is "";
  model is a text, initially is "";
  status is a symbol, initially is ok;
  starting_date is a text, initially is "";
  input_signal_type is a symbol, initially is none;
  input_signal_value is given by a quantitative-
  variable, initially is given by a quantitative-
  variable;
  output_signal_type is a symbol, initially is 0-
  24v;
  output_signal_value is given by a quantitative-
  variable, initially is given by a quantitative-
  variable;
  variable
Attribute initializations
  input_signal_type initially is leak
  inherited
  width 39; height 19;
  placa = extra-light-gray;
  
```



Direct superior classes bacteria  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path filamentous-bacteria, bacteria, microorganism.  
 Inherited attributes abundance is given by an integer-variable,  
 object\_item  
 Attribute initializations none  
 Attribute displays initially is given by an integer-variable  
 stubs inherited  
 Icon description inherited

NOTES  
 Authors OK  
 Class name metazoza  
 Direct superior classes microfauna  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path metazoza, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays initially is given by an integer-variable  
 stubs inherited  
 Icon description inherited

NOTES  
 Authors OK  
 Class name protozoza  
 Direct superior classes microfauna  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path protozoza, microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 stubs inherited  
 Icon description inherited

OTHER-MICROFAUNA, an object-definition  
 OK  
 Authors Juan (21 Jan 1998 5:12 p.m.)  
 Class name other-microfauna  
 Direct superior classes microfauna  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path other-microfauna, microfauna, microorganism,  
 object\_item  
 Inherited attributes abundance is given by an integer-variable,  
 initially is given by an integer-variable  
 Attribute initializations none  
 Attribute displays inherited  
 stubs inherited  
 Icon description inherited

NOTES  
 Authors OK  
 Class name p04-analyser  
 Direct superior classes analyser  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path p04-analyser, analyser, instrumentation, object,  
 item

Inherited attributes sample\_location is given by an integer-variable,  
 initially is given by an integer-variable;  
 on\_line-state is a symbol, initially is g2;  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_value is a symbol, initially is none;  
 variable, initially is given by a quantitative-  
 variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-  
 variable, initially is given by a quantitative-  
 variable

Attribute initializations input\_signal\_type initially is p-p04;  
 output\_signal\_type initially is p-p04-ppm  
 inherited  
 Attribute displays a rs485 located at left 10  
 stubs inherited  
 Icon description inherited

NOTES  
 Authors NH4-ANALYSER, an object-definition  
 OK  
 Class name Juan (15 Dec 1997 6:01 p.m.)  
 Direct superior classes nh4-analyser  
 Class specific attributes analyser  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path nh4-analyser, analyser, instrumentation, object,  
 item

Inherited attributes sample\_location is given by an integer-variable,  
 initially is given by an integer-variable;  
 on\_line-state is a symbol, initially is g2;  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-  
 variable, initially is given by a quantitative-  
 variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-  
 variable, initially is given by a quantitative-  
 variable

Attribute initializations input\_signal\_type initially is n-nh4;  
 output\_signal\_type initially is n-nh4-ppm  
 inherited  
 Attribute displays a rs485 located at left 10  
 stubs inherited  
 Icon description inherited

NOTES  
 Authors NH4-ANALYSER, an object-definition  
 OK  
 Class name Juan (15 Dec 1997 6:01 p.m.)  
 Direct superior classes no2-analyser  
 Class specific attributes analyser  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path no2-analyser, analyser, instrumentation, object,  
 item

Inherited attributes sample\_location is given by an integer-variable,  
 initially is given by an integer-variable;  
 on\_line-state is a symbol, initially is g2;  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-  
 variable, initially is given by a quantitative-  
 variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-

variable, initially is given by a quantitative-variable  
 output\_signal\_type initially is n-no2;  
 output\_signal\_type initially is n-no2-ppm  
 inherited  
 a rs485 located at left 10  
 inherited

NO3-ANALYSER, an object-definition  
 OK  
 Juan (15 Dec 1997 6:01 p.m.)  
 no3-analyser  
 none  
 none  
 none  
 a final menu choice  
 item  
 no3-analyser, analyser, instrumentation, object,  
 sample\_location is given by an integer-variable,  
 initially is given by an integer-variable;  
 on-line-state is a symbol, initially is g2;  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-variable,  
 initially is given by a quantitative-variable

Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description

AIR\_FLOJET, an object-definition  
 OK  
 Juan (16 Dec 1997 2:50 p.m.)  
 air\_flojet  
 pump  
 none  
 none  
 none  
 a final menu choice  
 item  
 air\_flojet, pump, instrumentation, object, item  
 set\_point\_pc is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 set\_point\_g2 is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 maximum-flow is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 state is given by a symbolic-parameter, initially is given by a symbolic-parameter;  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 output\_signal\_type is a symbol, initially is flow;  
 output\_signal\_value is given by a quantitative-variable,  
 initially is given by a quantitative-variable

Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description

ELECTRIC\_FLOJET, an object-definition  
 OK  
 Juan (16 Dec 1997 3:52 p.m.)  
 electric\_flojet  
 pump  
 none  
 none  
 none  
 a final menu choice  
 item  
 electric\_flojet, pump, instrumentation, object, item  
 set\_point\_pc is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 set\_point\_g2 is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 maximum-flow is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 state is given by a symbolic-parameter, initially is given by a symbolic-parameter;  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable,  
 initially is given by a quantitative-variable;  
 output\_signal\_type is a symbol, initially is flow;  
 output\_signal\_value is given by a quantitative-variable,  
 initially is given by a quantitative-variable

Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description

FIXED-DOSING-PUMP, an object-definition  
 OK  
 Juan (14 Jan 1998 4:04 p.m.)  
 fixed-dosing-pump  
 pump  
 none  
 none  
 none  
 a final menu choice  
 item  
 fixed-dosing-pump, pump, instrumentation, object, item  
 stroke-volume is given by a quantitative-variable,  
 initially is given by a quantitative-variable

Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description

filled rectangle (6, 43) (8, 36);  
 light-gray:  
 filled rectangle (17, 43) (13, 36);  
 light-gray:  
 filled rectangle (25, 43) (21, 36);  
 black:  
 filled rectangle (0, 0) (27, 37);  
 gray:  
 filled circle (1, 3) (3, 1) (5, 3);  
 filled circle (22, 34) (24, 32) (26, 34);  
 filled circle (22, 3) (24, 1) (26, 3);  
 filled circle (1, 34) (3, 32) (5, 34)

Notes  
 Authors  
 Class name  
 Direct superior classes  
 Class specific attributes  
 Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

Notes  
 Authors  
 Class name  
 Direct superior classes  
 Class specific attributes  
 Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

Notes  
 Authors  
 Class name  
 Direct superior classes  
 Class specific attributes  
 Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

Notes  
 Authors  
 Class name  
 Direct superior classes  
 Class specific attributes  
 Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

```

maximum-flow is given by a quantitative-variable;
initially is given by a quantitative-variable;
state is given by a symbolic-parameter; initially
is given by a symbolic-parameter;
mark is a text, initially is "";
model is a symbol, initially is "OK";
starting_date is a text, initially is "";
input_signal_type is a symbol, initially is none;
input_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable;
output_signal_type is a symbol, initially is flow;
output_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable
Attribute initializations
input_signal_type initially is period
inherited
Stub
an input on-off located at bottom 3;
an input concentrate located at bottom 10;
an output concentrate located at top 10
width 21; height 34;
bottom = black;
black:
outline (0, 3) (0, 34) (21, 34) (21, 3);
yellow:
filled rectangle (1, 4) (20, 33);
black:
filled rectangle (9, 0) (12, 3);
black:
filled rectangle (7, 0) (14, 1);
black:
filled circle (6, 24) (10, 20) (14, 24);
bottom:
filled circle (8, 11) (10, 9) (12, 11)
Notes
PERISTRATC-PUMP, an object-definition
OK
Authors
Juan (16 Dec 1997 11:45 a.m.)
Class name
peristratic-pump
Direct superior classes
pump
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
peristratic-pump, pump, instrumentation, object,
item
Inherited attributes
set_point_pc is given by a quantitative-variable;
initially is given by a quantitative-variable;
set_point_g2 is given by a quantitative-variable;
initially is given by a quantitative-variable;
maximum-flow is given by a quantitative-variable;
initially is given by a quantitative-variable;
state is given by a symbolic-parameter; initially
is given by a symbolic-parameter;
mark is a text, initially is "";
model is a text, initially is "";
starting_date is a symbol, initially is "OK";
input_signal_type is a symbol, initially is none;
input_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable;
output_signal_type is a symbol, initially is flow;
output_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable
Attribute initializations
input_signal_type initially is on-off
inherited
Stub
an input on-off located at left 20;
an input process-stream located at right 20;
an output process-stream located at right 8
width 50; height 31;
bottom = forest-green;
corral:
filled polygon (50, 0) (50, 31) (0, 31) (0,
0);

```

```

gray:
filled rectangle (3, 4) (47, 26);
black:
outline (29, 6) (29, 23) (45, 23) (45, 6);
smoky:
filled circle (30, 14) (37, 7) (44, 14);
dark-stare-blue:
filled circle (6, 10) (10, 6) (14, 10);
black:
filled rectangle (20, 6) (22, 24);
bottom:
filled rectangle (8, 18) (13, 23)
Notes
VARIABLE-DOSEING-PUMP, an object-definition
OK
Authors
Juan (14 Jan 1998 3:56 p.m.)
Class name
variable-dosing-pump
Direct superior classes
pump
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
variable-dosing-pump, pump, instrumentation,
object, item
Inherited attributes
set_point_pc is given by a quantitative-variable;
initially is given by a quantitative-variable;
set_point_g2 is given by a quantitative-variable;
initially is given by a quantitative-variable;
maximum-flow is given by a quantitative-variable;
initially is given by a quantitative-variable;
state is given by a symbolic-parameter; initially
is given by a symbolic-parameter;
mark is a text, initially is "";
model is a text, initially is "";
starting_date is a symbol, initially is "OK";
input_signal_type is a symbol, initially is none;
input_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable;
output_signal_type is a symbol, initially is flow;
output_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable
Attribute initializations
input_signal_type initially is 4-20ma
inherited
Stub
an input 4-20ma located at left 40;
an input on-off located at left 50;
an input process-stream located at bottom 10;
an output process-stream located at top 10
width 22; height 50;
bottom = forestgreen;
lime-green:
filled rectangle (0, 0) (22, 33);
black:
filled rectangle (0, 35) (22, 50);
black:
filled rectangle (2, 33) (20, 37);
light-gray:
filled circle (1, 29) (11, 19) (21, 29);
bottom:
filled rectangle (2, 43) (8, 48);
red:
filled rectangle (2, 43) (3, 46)
Notes
PHROCON-18, an object-definition
OK
Authors
Juan (14 Jan 1998 3:47 p.m.)
Class name
phrocon-18
Direct superior classes
controller
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
phrocon-18, pump, instrumentation, object,
item
Inherited attributes
set_point_pc is given by a quantitative-variable;
initially is given by a quantitative-variable;
set_point_g2 is given by a quantitative-variable;
initially is given by a quantitative-variable;
maximum-flow is given by a quantitative-variable;
initially is given by a quantitative-variable;
state is given by a symbolic-parameter; initially
is given by a symbolic-parameter;
mark is a text, initially is "";
model is a text, initially is "";
starting_date is a symbol, initially is "OK";
input_signal_type is a symbol, initially is none;
input_signal_value is given by a quantitative-
variable; initially is given by a quantitative-
variable;
output_signal_type is a symbol, initially is
pl100;
input_signal_value_2 is given by a quantitative-

```



variable, initially is given by a quantitative-variable;  
 output\_signal\_type\_3 is a symbol, initially is mv;  
 input\_signal\_value\_3 is given by a quantitative-variable, initially is given by a quantitative-variable;  
 input\_signal\_type\_4 is a symbol, initially is mv;  
 input\_signal\_value\_4 is given by a quantitative-variable, initially is given by a quantitative-variable  
 none  
 none  
 a final menu choice  
 phrocon-18, controller, instrumentation, object, item  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
 output\_signal\_type initially is rs485;  
 input\_signal\_type initially is rs485;  
 inherited  
 a rs485 located at bottom 5;  
 an input probe-signal located at bottom 15;  
 an input probe-signal located at bottom 20;  
 an input probe-signal located at bottom 25;  
 an input probe-signal located at bottom 30;  
 width 40; height 43;  
 boton = gray, display = medium-goldenrod;  
 extra-light-gray;  
 filled rectangle (2, 31) (38, 43);  
 gray;  
 filled rectangle (0, 0) (40, 31);  
 boton:  
 filled rectangle (32, 19) (36, 22);  
 black:  
 outline (0, 0) (40, 31) (40, 31) (40, 0);  
 display;  
 filled rectangle (6, 5) (33, 12);  
 floral-white;  
 filled rectangle (22, 19) (28, 22);  
 floral-white;  
 filled rectangle (10, 19) (16, 22);  
 floral-white;  
 filled rectangle (10, 25) (16, 28);  
 floral-white;  
 filled rectangle (22, 25) (28, 28)

PROBE, an object-definition  
 OK  
 Juan (22 Feb 1999 9:21 p.m.)  
 probe  
 measuring-device  
 measure-type is a symbol, initially is 92;  
 min-value is a float, initially is 0.0;  
 max-value is a float, initially is 0.0;  
 calibration is a symbol, initially is ok  
 none  
 none  
 a final menu choice  
 probe, measuring-device, instrumentation, object, item  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable

Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
 none  
 Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description  
 none  
 an output probe-signal located at top 7  
 width 100; height 100;  
 extra-light-gray;  
 filled rectangle (46, 34) (52, 77);  
 black:  
 filled rectangle (43, 16) (55, 34);  
 extra-light-gray;  
 filled circle (46, 79) (49, 76) (52, 79);  
 black:  
 filled rectangle (48, 9) (50, 16)

DETECTOR, an object-definition  
 OK  
 Juan (15 Dec 1997 5:50 p.m.)  
 detector  
 measuring-device  
 Direct superior classes  
 Class specific attributes  
 Instance configuration  
 Change  
 none  
 none  
 Menu option  
 Class inheritance path  
 Inherited attributes  
 a final menu choice  
 detector, measuring-device, instrumentation, object, item  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
 output\_signal\_type initially is 0-24v  
 inherited  
 an output 24v located at top 20  
 inherited

Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description  
 none  
 CONTROL-VALVE, an object-definition  
 OK  
 Juan (13 Nov 1997 4:59 p.m.)  
 control-valve  
 valve  
 Direct superior classes  
 Class specific attributes  
 Instance configuration  
 Change  
 none  
 none  
 Menu option  
 Class inheritance path  
 Inherited attributes  
 a final menu choice  
 control-valve, valve, instrumentation, object, item  
 mark is a text, initially is "";  
 model is a text, initially is "";  
 status is a symbol, initially is ok;  
 starting\_date is a text, initially is "";  
 input\_signal\_type is a symbol, initially is none;  
 input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable;  
 output\_signal\_type is a symbol, initially is none;  
 output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
 input\_signal\_type initially is 3-15psi  
 inherited  
 Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description  
 Gold;  
 filled rectangle (13, 18) (19, 25);  
 Gold;  
 filled circle (12, 28) (15, 25) (18, 28);

```

sev-sat is given by a float-variable, initially is
given by a float-variable;
cod is given by a float-variable, initially is
given by a float-variable;
bod is given by a float-variable, initially is
given by a float-variable;
our is given by a float-variable, initially is
given by a float-variable;
oxic-state is a symbol, initially is g2;
mark is a text, initially is "";
model is a text, initially is "";
starting_date is a text, initially is "";
volume is a quantity, initially is 0.0;
inflow is given by a float-variable, initially is
given by a float-variable;
outflow is given by a float-variable, initially is
given by a float-variable;
oxic-state initially is amoxic
Attribute initializations
inherited
Attribute displays
inherited
Subs
inherited
Icon description
inherited
Notes
AEROBIC-REACTOR, an object-definition
OK
Authors
Juan (19 Nov 1997 4:37 p.m.)
Direct superior classes
aerobic-reactor
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
aerobic-reactor, reactor, process_unit, object,
item
Inherited attributes
ph is given by a float-variable, initially is
given by a float-variable;
t is given by a float-variable, initially is given
by a float-variable;
o2 is given by a float-variable, initially is
given by a float-variable;
orp is given by a float-variable, initially is
given by a float-variable;
rpm is given by a float-variable, initially is
given by a float-variable;
setpoint-o2 is given by a float-variable,
initially is given by a float-variable;
setpoint-rpm is given by a float-variable;
initially is given by a float-variable;
n-mo3 is given by a float-variable, initially is
given by a float-variable;
n-mo2 is given by a float-variable, initially is
given by a float-variable;
n-mo4 is given by a float-variable, initially is
given by a float-variable;
n-m is given by a float-variable, initially is
given by a float-variable;
n-tn is given by a float-variable, initially is
given by a float-variable;
n-org is given by a float-variable, initially is
given by a float-variable;
tkn is given by a float-variable, initially is
given by a float-variable;
p-pot is given by a float-variable, initially is
given by a float-variable;
sev is given by a float-variable, initially is
given by a float-variable;
sat is given by a float-variable, initially is
given by a float-variable;
sev-sat is given by a float-variable, initially is
given by a float-variable;
cod is given by a float-variable, initially is
given by a float-variable;
bod is given by a float-variable, initially is
given by a float-variable;
our is given by a float-variable, initially is
given by a float-variable;
oxic-state is a symbol, initially is g2;
mark is a text, initially is "";
model is a text, initially is "";
starting_date is a text, initially is "";

```

```

volume is a quantity, initially is 0.0;
inflow is given by a float-variable, initially is
given by a float-variable;
outflow is given by a float-variable, initially is
given by a float-variable;
oxic-state initially is aerobic
Attribute initializations
inherited
Attribute displays
inherited
Subs
inherited
Icon description
inherited
Notes
ARROW-DOWN, an object-definition
OK
Authors
deb (4 Aug 1998 5:07 p.m.)
Direct superior classes
arrow
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
arrow-down, arrow, object, item
Inherited attributes
none
Attribute initializations
none
Attribute displays
inherited
Subs
inherited
Icon description
red: filled rectangle (22, 0) (9, 35);
red: filled polygon (1, 34) (29, 34) (15, 48)
Notes
ARROW-UP, an object-definition
OK
Authors
deb (4 Aug 1998 5:06 p.m.)
Direct superior classes
arrow-up
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
arrow-up, arrow, object, item
Inherited attributes
none
Attribute initializations
inherited
Attribute displays
inherited
Subs
inherited
Icon description
ARROW-LEFT, an object-definition
OK
Authors
deb (4 Aug 1998 5:04 p.m.)
Direct superior classes
arrow-left
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
arrow-left, arrow, object, item
Inherited attributes
none
Attribute initializations
inherited
Attribute displays
inherited
Subs
inherited
Icon description
red: filled rectangle (50, 7) (12, 22);
red: filled polygon (0, 16) (12, 2) (12, 27)
Notes
ARROW-RIGHT, an object-definition
OK
Authors
deb (4 Aug 1998 5:03 p.m.)
Direct superior classes
arrow-right
Class specific attributes
none
Instance configuration
none
Change
none
Menu option
a final menu choice
Class inheritance path
arrow-right, arrow, object, item
Inherited attributes
none
Attribute initializations
inherited

```

Attribute displays inherited  
 Stubs width 50; height 30;  
 Icon description red; filled rectangle (1, 7) (39, 22); filled polygon (38, 29) (38, 2) (50, 14)

MOTOR, an object-definition  
 OK  
 Notes deb (19 Jun 1998 1:25 P.m.)  
 Authors motor  
 Class name manresa  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change a final menu choice  
 Menu option motor, manresa, object, item  
 Class inheritance path none  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

PROCESS-EQUIPMENT, an object-definition  
 OK  
 Notes deb (19 Jun 1998 1:24 P.m.)  
 Authors process-equipment  
 Class name manresa  
 Direct superior classes none  
 Class specific attributes none  
 Instance configuration none  
 Change never a menu choice  
 Menu option process-equipment, manresa, object, item  
 Class inheritance path none  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

REACTOR-STATE, an object-definition  
 OK  
 Notes deb (24 Jul 1998 4:02 P.m.)  
 Authors reactor-state  
 Class name reactor-state  
 Direct superior classes oxidation-state is a symbol, initially is g2;  
 Class specific attributes oxygen-level is a symbol, initially is g2;  
 Instance configuration ph-state is a symbol, initially is g2;  
 Change orp-state is a symbol, initially is g2  
 Menu option none  
 Class inheritance path a final menu choice  
 Inherited attributes reactor-state, process-parameter, object, item  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

CALIBRATION-SCHEDULE, an object-definition  
 OK  
 Notes deb (24 Jul 1998 5:37 P.m.)  
 Authors calibration-schedule  
 Class name process-parameter  
 Direct superior classes frequency is an integer, initially is 604800;  
 Class specific attributes calibration-time is given by an integer-variable,  
 initially is given by an integer-variable;  
 Instance configuration time-to-calibration is given by an integer-  
 Change variable, initially is given by an integer-  
 Menu option none  
 Class inheritance path a final menu choice  
 Inherited attributes calibration-schedule, process-parameter, object,  
 Attribute initializations item  
 Attribute displays none  
 Stubs none  
 Icon description inherited

Attribute displays inherited  
 Stubs width 50; height 30;  
 Icon description red; filled rectangle (1, 7) (39, 22); filled polygon (38, 29) (38, 2) (50, 14)

IN-LINE-DATABASE, an object-definition  
 OK  
 Notes deb (17 Jun 1998 5:00 P.m.)  
 Authors in-line-database  
 Class name process-parameter  
 Direct superior classes ph is given by a float-variable, initially is  
 Class specific attributes t is given by a float-variable, initially is given  
 Instance configuration by a float-variable;  
 Change orp is given by a float-variable, initially is  
 Menu option given by a float-variable;  
 Class inheritance path o2 is given by a float-variable, initially is  
 Inherited attributes given by a float-variable;  
 Attribute initializations rpm is given by a float-variable, initially is  
 Attribute displays aeration is given by a float-variable, initially is  
 Stubs aeration is given by a float-variable, initially  
 Icon description is given by a float-variable

MICROORGANISM-QUANTITY, an object-definition  
 OK  
 Notes Juan (19 Feb 1998 7:05 P.m.)  
 Authors microorganism-quantity  
 Class name process-parameter  
 Direct superior classes m-total is given by a float-variable, initially is  
 Class specific attributes given by a float-variable;  
 Instance configuration m-reactors is given by a float-variable, initially  
 Change is given by a float-variable;  
 Menu option m-anaerobic is given by a float-variable,  
 Class inheritance path initially is given by a float-variable, initially  
 Inherited attributes m-reactor1 is given by a float-variable,  
 Attribute initializations as given by a float-variable;  
 Attribute displays m-reactor2 is given by a float-variable, initially  
 Stubs m-reactor3 is given by a float-variable, initially  
 Icon description m-settler is given by a float-variable, initially  
 is given by a float-variable

MEAN-CELL-RETENTION-TIME, an object-definition  
 OK  
 Notes Juan (19 Feb 1998 2:28 P.m.)  
 Authors mean-cell-retention-time  
 Class name process-parameter  
 Direct superior classes total-mcrt is given by a float-variable, initially  
 Class specific attributes is given by a float-variable;  
 Instance configuration reactors-mcrt is given by a float-variable,  
 Change anaerobic-mcrt is given by a float-variable,  
 Menu option initially is given by a float-variable;  
 Class inheritance path reactor1-mcrt is given by a float-variable,  
 Inherited attributes reactor2-mcrt is given by a float-variable,  
 Attribute initializations reactor3-mcrt is given by a float-variable,  
 Attribute displays initially is given by a float-variable,  
 Stubs reactor3-mcrt is given by a float-variable,  
 Icon description initially is given by a float-variable

Instance configuration settler-wcrt is given by a float-variable.  
 Change none  
 Menu option a final menu choice  
 Class inheritance path mean-cell-retention-time, process-parameter.  
 Inherited attributes none  
 Attribute displays none  
 Stub none  
 Icon description inherited

HYDRAULIC-RETENTION-TIME, an object-definition  
 OK  
 Authors Juan (5 May 1998 9:26 a.m.)  
 Class name hydraulic-retention-time  
 Direct superior classes process-parameter  
 Class specific attributes total-hrt is given by a float-variable, initially is given by a float-variable;  
 reactor-hrt is given by a float-variable;  
 reactor2-hrt is given by a float-variable;  
 reactor3-hrt is given by a float-variable;  
 settler-hrt is given by a float-variable;  
 initially is given by a float-variable;  
 anaerobic-hrt is given by a float-variable;  
 reactor1-hrt is given by a float-variable;  
 reactor2-hrt is given by a float-variable;  
 reactor3-hrt is given by a float-variable;  
 initially is given by a float-variable;  
 reactor-hrt is given by a float-variable;  
 initially is given by a float-variable;  
 settler-hrt is given by a float-variable;  
 initially is given by a float-variable

Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path hydraulic-retention-time, process-parameter.  
 Inherited attributes none  
 Attribute displays none  
 Stub none  
 Icon description inherited

MICRO-ORG, an object-definition  
 OK  
 Authors Juan (17 Jul 1998 9:03 p.m.)  
 Class name micro-org  
 Direct superior classes microorganism  
 Class specific attributes lipus is given by a symbolic-parameter. initially is given by a symbolic-parameter  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path micro-org, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute displays none  
 Stub inherited  
 Icon description inherited

ZOOLOGIA, an object-definition  
 OK  
 Authors Juan (21 Jan 1998 5:49 p.m.)  
 Class name zoologia  
 Direct superior classes microorganism  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path zoologia, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute displays none  
 Stub inherited  
 Icon description inherited

FUNGI, an object-definition  
 OK  
 Authors Juan (21 Jan 1998 5:49 p.m.)  
 Class name fungi  
 Direct superior classes microorganism  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path fungi, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute displays none  
 Stub inherited  
 Icon description inherited

BACTERIA, an object-definition  
 OK  
 Authors Juan (21 Jan 1998 5:15 p.m.)  
 Class name bacteria  
 Direct superior classes microorganism  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path bacteria, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute displays none  
 Stub inherited  
 Icon description inherited

MICROFAUNA, an object-definition  
 OK  
 Authors Juan (22 Jan 1998 1:15 p.m.)  
 Class name microfauna  
 Direct superior classes microorganism  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path microfauna, microorganism, object, item  
 Inherited attributes abundance is given by an integer-variable, initially is given by an integer-variable  
 Attribute displays none  
 Stub inherited  
 Icon description inherited

G2-COMPUTER, an object-definition  
 OK  
 Authors Juan (27 Oct 1998 8:52 a.m.)  
 Class name g2-computer  
 Direct superior classes computer  
 Class specific attributes setpoint-o2-reactor1 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-o2-reactor2 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-o2-reactor3 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-tpm-reactor1 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-tpm-reactor2 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-tpm-reactor3 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-ma-reactor1 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-ma-reactor2 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-ma-reactor3 is given by a gsl-setpoint, initially is given by a gsl-setpoint,  
 setpoint-pid-reactor1 is given by a gsl-setpoint, initially is given by a gsl-setpoint,

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setpoint-pid-reactor2 is given by a gsi-setpoint,
initially is given by a gsi-setpoint;
setpoint-pid-reactor3 is given by a gsi-setpoint,
initially is given by a gsi-setpoint;
setpoint-inflow is given by a gsi-setpoint,
initially is given by a gsi-setpoint;
setpoint-internal-recirculation-flow is given by a
gsi-setpoint, initially is given by a gsi-
setpoint;
setpoint-external-recirculation-flow is given by a
gsi-setpoint, initially is given by a gsi-
setpoint;
setpoint-communication-timer is given by a gsi-
setpoint, initially is given by a gsi-setpoint;
setpoint-purge-time is given by a gsi-setpoint,
initially is given by a gsi-setpoint;
setpoint-purge-timer is given by a gsi-setpoint,
initially is given by a gsi-setpoint;
setpoint-c-dosification-timer is given by a gsi-
setpoint, initially is given by a gsi-setpoint;
setpoint-n-dosification-timer is given by a gsi-
setpoint, initially is given by a gsi-setpoint;
setpoint-flojet-on is given by a gsi-setpoint,
initially is given by a gsi-setpoint;
setpoint-planta-on-off is given by a gsi-setpoint,
initially is given by a gsi-setpoint
none
none
a final menu choice
s2-computer, computer, object, item
mark is a text, initially is "";
model is a text, initially is "";
starting_date is a text, initially is ""
inherited
none
a tcp-ip located at right 45
width 50; height 50;
keyboard-region = antique-white, terminal-region =
antique-white, alarm-region = light-gray;
keyboard-region:
filled polygon (0, 50) (0, 46) (10, 40) (50,
40) (50, 47) (42, 50);
terminal-region:
filled polygon (47, 0) (50, 2) (50, 36) (41,
40) (3, 40) (0, 37) (0, 3) (3, 0);
alarm-region:
filled polygon (37, 3) (40, 5) (40, 34) (38,
36) (6, 36) (4, 34) (4, 5) (7, 3);
black:
outline (37, 3) (40, 5) (40, 34) (38, 36) (6,
36) (4, 34) (4, 5) (7, 3);
outline (0, 50) (0, 46) (10, 40) (50, 40) (50,
47) (42, 50);
outline (47, 0) (50, 2) (50, 36) (41, 40) (3,
40) (0, 37) (0, 3) (3, 0);
lines (41, 40) (44, 37) (44, 3) (41, 0);
dark-gray:
lines (5, 33) (5, 6) (8, 4) (37, 4)

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Instance configuration
Change
Menu option
Class inheritance path
Inherited attributes
Attribute initializations
Attribute displays
Stubs
Icon description
PROCESS-COMPUTER, an object-definition
OK
Notes
Authors
Class name
Direct superior classes
Class specific attributes
ANALYZER-COMPUTER, an object-definition
OK
Juan (7 Jan 1998 5:33 P.M.)
analyzer-computer
computer
pca-n-no3-reactor0 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-no3-reactor1 is given by a gsi-measure;
initially is given by a gsi-measure;
pca-n-no3-reactor2 is given by a gsi-measure;
initially is given by a gsi-measure;
pca-n-no3-reactor3 is given by a gsi-measure;
initially is given by a gsi-measure;
pca-n-no3-waste is given by a gsi-measure;
initially is given by a gsi-measure;
pca-n-no2-reactor0 is given by a gsi-measure;
initially is given by a gsi-measure;
pca-n-no2-reactor1 is given by a gsi-measure;
initially is given by a gsi-measure;

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initially is given by a gsi-measure;
pca-n-no2-reactor2 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-no2-reactor3 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-no2-waste is given by a gsi-measure;
initially is given by a gsi-measure;
pca-n-nh4-reactor0 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-nh4-reactor1 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-nh4-reactor2 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-nh4-reactor3 is given by a gsi-measure,
initially is given by a gsi-measure;
pca-n-nh4-waste is given by a gsi-measure,
initially is given by a gsi-measure
none
none
a final menu choice
analyzer-computer, computer, object, item
mark is a text, initially is "";
starting_date is a text, initially is ""
inherited
none
a rs232 located at bottom 60;
a rs232 located at bottom 65;
a tcp-ip located at bottom 75
inherited
PROCESS-COMPUTER, an object-definition
OK
Notes
Authors
Class name
Direct superior classes
Class specific attributes
pc-ph-reactor1 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-ph-reactor2 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-ph-reactor3 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-t-reactor1 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-t-reactor2 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-t-reactor3 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-o2-reactor1 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-o2-reactor2 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-o2-reactor3 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-orp-reactor1 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-orp-reactor2 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-orp-reactor3 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-rpm-reactor1 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-rpm-reactor2 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-rpm-reactor3 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-ma-reactor1 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-ma-reactor2 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-ma-reactor3 is given by a gsi-measure;
initially is given by a gsi-measure;
pc-setpoint-02-reactor1 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-setpoint-02-reactor2 is given by a gsi-measure,
initially is given by a gsi-measure;
pc-setpoint-02-reactor3 is given by a gsi-measure,
initially is given by a gsi-measure;

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Instance configuration
Change
Menu option
Class inheritance path
Inherited attributes
Attribute initializations
Attribute displays
Stubs
Icon description
PROCESS-COMPUTER, an object-definition
OK
Notes
Authors
Class name
Direct superior classes
Class specific attributes

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input\_signal\_type\_15 is a symbol, initially is 0-24V;  
input\_signal\_value\_15 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_0 is a symbol, initially is on-off;  
output\_signal\_value\_0 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_1 is a symbol, initially is on-off;  
output\_signal\_value\_1 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_2 is a symbol, initially is on-off;  
output\_signal\_value\_2 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_3 is a symbol, initially is on-off;  
output\_signal\_value\_3 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_4 is a symbol, initially is on-off;  
output\_signal\_value\_4 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_5 is a symbol, initially is on-off;  
output\_signal\_value\_5 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_6 is a symbol, initially is on-off;  
output\_signal\_value\_6 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_7 is a symbol, initially is on-off;  
output\_signal\_value\_7 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_8 is a symbol, initially is 0-24V;  
output\_signal\_value\_8 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_9 is a symbol, initially is 0-24V;  
output\_signal\_value\_9 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_10 is a symbol, initially is 0-24V;  
output\_signal\_value\_10 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_11 is a symbol, initially is 0-24V;  
output\_signal\_value\_11 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_12 is a symbol, initially is 0-24V;  
output\_signal\_value\_12 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_13 is a symbol, initially is 0-24V;  
output\_signal\_value\_13 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_14 is a symbol, initially is 0-24V;

output\_signal\_value\_14 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_15 is a symbol, initially is 0-24V;  
output\_signal\_value\_15 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_16 is a symbol, initially is 0-24V;  
output\_signal\_value\_16 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_17 is a symbol, initially is 0-24V;  
output\_signal\_value\_17 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_18 is a symbol, initially is 0-24V;  
output\_signal\_value\_18 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_19 is a symbol, initially is 0-24V;  
output\_signal\_value\_19 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_20 is a symbol, initially is 0-24V;  
output\_signal\_value\_20 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_21 is a symbol, initially is 0-24V;  
output\_signal\_value\_21 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_22 is a symbol, initially is 0-24V;  
output\_signal\_value\_22 is given by an integer-variable, initially is given by an integer-variable;  
output\_signal\_type\_23 is a symbol, initially is 0-24V;  
output\_signal\_value\_23 is given by an integer-variable, initially is given by an integer-variable;  
none  
none  
a final menu choice  
old-pic, instrumentation, object, item  
mark is a text, initially is "";  
model is a text, initially is "";  
status is a symbol, initially is ok;  
starting\_date is a text, initially is "";  
input\_signal\_type is a symbol, initially is none;  
input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable;  
output\_signal\_type is a symbol, initially is none;  
output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
input\_signal\_type initially is rs232;  
output\_signal\_type initially is rs232  
inherited  
width 100; height 100;  
dim-gray;  
filled rectangle (1, 10) (47, 33);  
filled rectangle (1, 10) (97, 73);  
indian-red;  
filled rectangle (1, 10) (33, 73);  
black;  
outline (2, 10) (2, 73) (32, 73) (32, 10);  
outline (33, 41) (33, 41) (97, 41) (97, 41);

Instance configuration

Change  
Menu option  
Class inheritance path  
Inherited attributes

Attribute initializations

Attribute displays  
Stubs  
Icon description

```

Instance configuration      none
Change                      none
Menu option                 a final menu choice
Class inheritance path     settler, process_unit, object, item
Inherited attributes       mark is a text, initially is "";
                            model is a text, initially is "";
                            starting_date is a text, initially is "";
                            volume is a quantity, initially is 0.0;
                            inflow is given by a float-variable, initially is
                                given by a float-variable;
                            outflow is given by a float-variable, initially is
                                given by a float-variable
Attribute initializations  none
Stub                         inherited
Icon description           an input connection-stream located at left 48;
                            an output final-effluent located at right 11;
                            an output external-recycle located at bottom 25
                            width 50; height 115;
                            dim-gray:
                                outline (0, 0) (0, 79) (50, 79) (50, 0);
                                (27, 115) (22, 115) (0, 79);
                                goldendrod:
                                    filled rectangle (1, 10) (49, 79);
                                    filled polygon (49, 79) (26, 114) (22, 114)
                                        (22, 113) (1, 79)
VESSEL, an object-definition
OK
Author                       Juan (16 Nov 1998 3:03 p.m.)
Class name                   vessel
Direct superior classes     process_unit
Class specific attributes   cod is a float, initially is 0.0;
                            volume_rest is given by a float-variable, initially
                                is given by a float-variable
Instance configuration      none
Change                      none
Menu option                 a final menu choice
Class inheritance path     vessel, process_unit, object, item
Inherited attributes       mark is a text, initially is "";
                            model is a text, initially is "";
                            starting_date is a text, initially is "";
                            volume is a quantity, initially is 0.0;
                            inflow is given by a float-variable, initially is
                                given by a float-variable;
                            outflow is given by a float-variable, initially is
                                given by a float-variable
Attribute initializations  none
Stub                         inherited
Icon description           outline (0, 50) (0, 0) (29, 0) (29, 50);
                            red:
                                filled circle (11, 5) (15, 1) (19, 5);
                            black:
                                lines (1, 10) (28, 10)
ANEROBIC-REACTOR, an object-definition
OK
Author                       Juan (5 May 1998 9:52 a.m.)
Class name                   anaerobic-reactor
Direct superior classes     process_unit
Class specific attributes   n-no3 is given by a float-variable, initially is
                                given by a float-variable;
                            n-no2 is given by a float-variable, initially is
                                given by a float-variable;
                            n-nh4 is given by a float-variable, initially is
                                given by a float-variable;
                            n-nh is given by a float-variable, initially is
                                given by a float-variable;
                            n-tn is given by a float-variable, initially is
                                given by a float-variable;
                            n-org is given by a float-variable, initially is
                                given by a float-variable;
                            km is given by a float-variable, initially is
                                given by a float-variable;
                            p-pod is given by a float-variable, initially is
                                given by a float-variable;
                            p-pod4 is given by a float-variable, initially is
                                given by a float-variable;
    
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Instance configuration      none
Change                      none
Menu option                 a final menu choice
Class inheritance path     anaerobic-reactor, process_unit, object, item
Inherited attributes       mark is a text, initially is "";
                            model is a text, initially is "";
                            starting_date is a text, initially is "";
                            volume is a quantity, initially is 0.0;
                            inflow is given by a float-variable, initially is
                                given by a float-variable;
                            outflow is given by a float-variable, initially is
                                given by a float-variable;
                            oxic-state is a symbol, initially is anaerobic
Attribute initializations  none
Stub                         inherited
Icon description           an input process-stream located at left 50;
                            an output process-stream located at right 10
                            width 40; height 60;
                            foreground:
                                outline (0, 0) (0, 60) (40, 60) (40, 0);
                                goldendrod:
                                    filled rectangle (1, 11) (39, 59)
REACTOR, an object-definition
OK
Author                       deb (24 Jul 1998 12:30 p.m.), Juan
Class name                   reactor
Direct superior classes     process_unit
Class specific attributes   ph is given by a float-variable, initially is
                                given by a float-variable;
                            t is given by a float-variable, initially is given
                                by a float-variable;
                            o2 is given by a float-variable, initially is
                                given by a float-variable;
                            orp is given by a float-variable, initially is
                                given by a float-variable;
                            rpm is given by a float-variable, initially is
                                given by a float-variable;
                            setpoint-o2 is given by a float-variable,
                                initially is given by a float-variable;
                            setpoint-rpm is given by a float-variable,
                                initially is given by a float-variable;
                            n-no3 is given by a float-variable, initially is
                                given by a float-variable;
                            n-no2 is given by a float-variable, initially is
                                given by a float-variable;
                            n-nh4 is given by a float-variable, initially is
                                given by a float-variable;
                            n-tn is given by a float-variable, initially is
                                given by a float-variable;
                            n-org is given by a float-variable, initially is
                                given by a float-variable;
                            km is given by a float-variable, initially is
                                given by a float-variable;
                            p-pod is given by a float-variable, initially is
                                given by a float-variable;
                            sav is given by a float-variable, initially is
                                given by a float-variable;
                            set is given by a float-variable, initially is
                                given by a float-variable;
                            sav-set is given by a float-variable, initially is
                                given by a float-variable;
                            cod is given by a float-variable, initially is
                                given by a float-variable;
                            bod is given by a float-variable, initially is
                                given by a float-variable;
    
```

our is given by a float-variable, initially is  
 given by a float-variable;  
 oxix-state is a symbol, initially is g2  
 none  
 none  
 a final menu choice  
 reactor, process\_unit, object, item  
 mark is a text, initially is ""  
 medal is a text, initially is ""  
 starting\_date is a text, initially is ""  
 volume is a quantity, initially is 0.0;  
 inflow is given by a float-variable, initially is  
 outflow is given by a float-variable, initially is  
 given by a float-variable  
 none  
 inherited  
 an input connection-stream located at left 12;  
 an output connection-stream located at right 12;  
 an input aeration located at bottom 20  
 width 60; height 80;  
 alto1 = goldenrod, alto2 = goldenrod;  
 foreground:  
 outline (0, 0) (0, 80) (60, 80) (60, 0);  
 goldenrod:  
 filled rectangle (1, 11) (59, 79);  
 alto1:  
 filled polygon (32, 11) (1, 11) (1, 8);  
 filled polygon (30, 11) (59, 8) (59, 11);  
 alto2:  
 filled polygon (2, 9) (2, 6) (31, 9) (58, 6)  
 (58, 10) (30, 13)

WASTE, an object-definition

OK  
 Juan (5 May 1998 10:21 a.m.)  
 waste  
 process unit  
 n-no3 is given by a float-variable, initially is  
 given by a float-variable;  
 n-no2 is given by a float-variable, initially is  
 given by a float-variable;  
 n-nh4 is given by a float-variable, initially is  
 given by a float-variable;  
 n-n is given by a float-variable, initially is  
 given by a float-variable;  
 n-ozg is given by a float-variable, initially is  
 given by a float-variable;  
 tbn is given by a float-variable, initially is  
 given by a float-variable;  
 p-PP4 is given by a float-variable, initially is  
 given by a float-variable;  
 cod is given by a float-variable, initially is  
 given by a float-variable;  
 ssv is given by a float-variable, initially is  
 given by a float-variable;  
 sst is given by a float-variable, initially is  
 given by a float-variable;  
 ssv-sst is given by a float-variable, initially is  
 given by a float-variable  
 none  
 none  
 a final menu choice  
 waste, process\_unit, object, item  
 mark is a text, initially is ""  
 model is a text, initially is ""  
 starting\_date is a text, initially is ""  
 volume is a quantity, initially is 0.0;  
 inflow is given by a float-variable, initially is  
 given by a float-variable;  
 outflow is given by a float-variable, initially is  
 given by a float-variable  
 none  
 inherited  
 an input final-effluent located at left 7  
 width 40; height 40;  
 a1 = powder-blue, a2 = sky-blue, a3 = sky-blue;

Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

Attribute initializations  
 Attribute displays  
 Stubs

Icon description

Notes  
 Authors  
 Class name  
 Direct superior classes  
 Class specific attributes

Instance configuration  
 Change  
 Menu option  
 Class inheritance path  
 Inherited attributes

Attribute initializations  
 Attribute displays  
 Stubs  
 Icon description

a1:  
 lines (4, 7) arc (31, 20) (33, 23);  
 lines (5, 9) arc (29, 22) (30, 24);  
 lines (3, 8) arc (31, 23) (33, 27);  
 lines (23, 13) arc (33, 24) (35, 27);  
 lines (7, 10) arc (28, 22) (29, 25);  
 a2:  
 lines (7, 5) arc (25, 15) (28, 20);  
 lines (5, 6) arc (25, 18) (28, 22);  
 lines (4, 4) arc (28, 18) (29, 20);  
 lines (4, 5) arc (28, 21) (30, 23);  
 a3:  
 lines (26, 20) arc (30, 27) (30, 29);  
 lines (27, 20) arc (31, 27) (31, 29);  
 lines (28, 19) arc (32, 26) (32, 28);  
 lines (28, 18) arc (32, 25) (32, 27);  
 medium-blue:  
 filled rectangle (-1, 2) (3, 11)

GSI-BRIDGE, an object-definition

OK  
 Juan (26 Nov 1997 4:07 P.m.)  
 gsi-bridge  
 gsi-interface  
 Direct superior classes  
 Class specific attributes  
 none  
 Instance configuration  
 none  
 Change  
 Menu option  
 a final menu choice  
 Class inheritance path  
 gsi-bridge, gsi-interface, object, item  
 Inherited attributes  
 none  
 Attribute initializations  
 none  
 Attribute displays  
 Stubs  
 inherited  
 inherited  
 Icon description

ARROW, an object-definition

OK  
 deb (4 Aug 1998 4:58 p.m.)  
 arrow  
 Class name  
 Direct superior classes  
 Class specific attributes  
 object  
 none  
 Instance configuration  
 none  
 Change  
 Menu option  
 a final menu choice  
 Class inheritance path  
 arrow, object, item  
 Inherited attributes  
 none  
 Attribute initializations  
 none  
 Attribute displays  
 Stubs  
 inherited  
 width 30; height 50;  
 red:  
 filled rectangle (22, 15) (9, 50);  
 red:  
 filled polygon (29, 15) (1, 15) (15, 0)

CILIS, an object-definition

OK  
 deb (17 Jul 1998 9:12 p.m.)  
 cilis  
 Class name  
 Direct superior classes  
 Class specific attributes  
 object  
 estat-cilis is given by a symbolic-parameter,  
 initially is given by a symbolic-parameter;  
 vius is given by a symbolic-parameter, initially  
 is given by a symbolic-parameter  
 none  
 none  
 Instance configuration  
 none  
 Change  
 Menu option  
 a final menu choice  
 Class inheritance path  
 cilis, object, item  
 Inherited attributes  
 none  
 Attribute initializations  
 none  
 Attribute displays  
 Stubs  
 inherited  
 inherited  
 Icon description  
 MANRESA, an object-definition  
 OK  
 deb (19 Jun 1998 11:18 a.m.)

Class name manresa  
 Direct superior classes object  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path manresa, object, Item  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

PROCESS-PARAMETER, an object-definition

Notes OK  
 Authors Juan (18 Feb 1998 8:43 p.m.)  
 Class name process-parameter  
 Direct superior classes object  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path process-parameter, object, Item  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

MICROORGANISM, an object-definition

Notes OK  
 Authors Juan (22 Jan 1998 1:15 p.m.)  
 Class name microorganism  
 Direct superior classes abundance  
 Class specific attributes initially is given by an integer-variable, initially is given by an integer-variable  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path microorganism, object, Item  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

COMPUTER, an object-definition

Notes OK  
 Authors Juan (15 Dec 1997 12:23 p.m.)  
 Class name computer  
 Direct superior classes object  
 Class specific attributes mark is a text, initially is ""; model is a text, initially is ""; starting\_date is a text, initially is ""  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path computer, object, Item  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs none  
 Icon description none

width 83; height 50;  
 keyboard-region = light-gray, terminal-region = sky-blue, alarm-region = light-gray;  
 keyboard-region: filled polygon (0, 50) (0, 46) (10, 40) (50, 40) (50, 47) (42, 50);  
 terminal-region: filled polygon (47, 0) (50, 2) (50, 36) (41, 40) (3, 40) (0, 37) (0, 3) (3, 0);  
 alarm-region: filled polygon (37, 3) (40, 5) (40, 34) (38, 36) (6, 36) (4, 34) (4, 5) (7, 3);  
 black: outline (37, 3) (40, 5) (40, 34) (38, 36) (6, 36) (4, 34) (4, 5) (7, 3);

outline (0, 50) (0, 46) (10, 40) (50, 40) (50, 47) (42, 50);  
 outline (47, 0) (50, 2) (50, 36) (41, 40) (3, 40) (0, 37) (0, 3) (3, 0);  
 lines (41, 40) (44, 37) (44, 3) (41, 0);  
 dark-gray: lines (5, 33) (5, 6) (8, 4) (37, 4);  
 lines: filled polygon (76, 5) (76, 49) (55, 49) (55, 5), 5);  
 black: outline (76, 5) (76, 49) (55, 49) (55, 5);  
 lines (76, 49) (83, 45);  
 lines (76, 5) (83, 1);  
 lines (83, 1) (83, 45);  
 lines (52, 1) (83, 1);  
 outline (58, 7) (58, 11) (73, 11) (73, 7);  
 lines (55, 5) (62, 1)

COMPUTER-INTERFACE, an object-definition

Notes OK  
 Authors Juan (19 Nov 1997 10:54 a.m.)  
 Class name computer-interface  
 Direct superior classes object  
 Class specific attributes network-type is a symbol, initially is g2; data-bits is an integer, initially is 0; stop-bits is an integer, initially is 0; parity-bit is a symbol, initially is g2; transmission-rate is an integer, initially is 0  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path computer-interface, object, Item  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

SLUDGE, an object-definition

Notes OK  
 Authors Juan (23 Jan 1998 10:22 p.m.)  
 Class name sludge  
 Direct superior classes immuculation\_date is a text, initially is ""; svr is given by a float-variable, initially is given by a float-variable; source is given by a text-variable, initially is filament-structure is given by an integer-variable; filament-structure is given by a text-variable, initially is given by a text-variable; filament-effect-on-floc-structure is given by a text-variable, initially is given by a text-variable; morphology-of-floc is given by a text-variable, initially is given by a text-variable; floc-size-1e150 is given by a float-variable, initially is given by a float-variable; floc-size-150-500 is given by a float-variable, initially is given by a float-variable; floc-size-gt500 is given by a float-variable, initially is given by a float-variable; india-ink-reverse-stain is given by a text-variable, initially is given by a text-variable  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path sludge, object, Item  
 Inherited attributes none  
 Attribute initializations none  
 Attribute displays inherited  
 Stubs inherited  
 Icon description inherited

INSTRUMENTATION, an object-definition

Notes OK

Authors Juan (23 Nov 1998 2:27 p.m.)  
 Class name instrumentation  
 Direct superior classes object  
 Class specific attributes mark is a text, initially is ""; status is a symbol, initially is ""; starting date is a text, initially is ""; input signal type is a symbol, initially is none; input\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable; output signal type is a symbol, initially is none; output\_signal\_value is given by a quantitative-variable, initially is given by a quantitative-variable  
 none  
 none  
 a final menu choice instrumentation, object, item  
 none  
 none  
 inherited  
 inherited  
 Icon description PROCESS\_UNIT, an object-definition  
 Notes OK  
 Authors Juan (16 Jan 1998 5:39 p.m.)  
 Class name process\_unit  
 Direct superior classes object  
 Class specific attributes mark is a text, initially is ""; starting\_date is a text, initially is ""; volume is a quantity, initially is 0.0; inflow is given by a float-variable, initially is given by a float-variable; outflow is given by a float-variable, initially is given by a float-variable  
 none  
 none  
 a final menu choice process\_unit, object, item  
 none  
 none  
 inherited  
 inherited  
 Icon description PLANT, an object-definition  
 Notes OK  
 Authors Juan (21 Nov 1998 1:20 p.m.), deb  
 Class name plant  
 Direct superior classes state is given by a symbolic-parameter, initially is given by a symbolic-parameter; operation-problems is given by a symbolic-parameter, initially is given by a symbolic-parameter; on-off is given by an integer-parameter, initially is given by an integer-parameter; ph-problems initially is given by a symbolic-variable; aeration-problems is given by a symbolic-variable, initially is given by a symbolic-variable; toxic-problems initially is given by a symbolic-variable; high-load-problems initially is given by a symbolic-variable; bulking-problems initially is given by a symbolic-variable; foaming-problems initially is given by a logical-variable; rising-problems initially is given by a logical-variable; nitrification-problems initially is given by a logical-variable; nomecc-settler-problems initially is given by a

Instance configuration logical-variable  
 Change none  
 Menu option a final menu choice  
 Class inheritance path plant, object, item  
 Inherited attributes none  
 Attribute initializations none  
 Stubbs inherited  
 Icon description inherited  
 Notes OK  
 Authors deb (19 Jun 1998 10:40 a.m.)  
 Class name informadors  
 Direct superior classes object  
 Class specific attributes none  
 Instance configuration none  
 Change none  
 Menu option a final menu choice  
 Class inheritance path informadors, object, item  
 Inherited attributes none  
 Attribute initializations none  
 Stubbs inherited  
 Icon description width 100; height 50; sobre = transparent; filled rectangle (0, 0) (0, 0); filled rectangle (0, 0) (100, 50); black: outline (0, 0) (0, 50) (100, 50) (100, 0); lines (100, 0) (50, 25) (0, 0)  
 Notes OBJ-SUBMS-DEACTIV, an object-definition  
 Authors OK  
 Class name deb (19 Jun 1998 3:03 p.m.)  
 Direct superior classes obj-subws-deactiv  
 Class specific attributes object  
 Instance configuration declare properties of any item as follows: activatable-subworkspace  
 Change none  
 Menu option a final menu choice  
 Class inheritance path obj-subws-deactiv, object, item  
 Inherited attributes none  
 Attribute initializations none  
 Stubbs inherited  
 Icon description width 40; height 40; fons = gray, fletxa = light-gray, marc = dark-slate-blue; fons: filled rectangle (0, 0) (40, 40); fletxa: filled polygon (27, 0) (27, 24) (40, 24) (40, 40) (0, 24) (13, 24) (13, 0); marc: outline (0, 0) (0, 40) (40, 40) (40, 0)

```

/*****
PROCEDIMIENTOS DEFINIDOS EN EL SISTEMA EXPERTO DESARROLLADO
/*****
** Genavm GZ Knowledge Base Inspection Output
** From KB: /usr/users/juan/super/themoraal.kb
** File: /quantum/juan/bmp/procedures.sp
** Written at: 16 Jun 99 2:48:30 p.m.

```

```

** Command:
write to the file "/quantum/juan/bmp/procedures"
every procedure
** Results follow this line:

```

```

UPDATE-T_FLOJET_ON, a procedure
OK
Notes
Authors Juan (17 Nov 1998 10:40 a.m.), deb
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6
Uninterrupted procedure execution limit use default
update-t_flojet_on()
caudal, caudal_maximo: float;
segundos, segundos_actual: integer;

```

```

begin
collect data
caudal = the output signal value of flojet-1 * 0.98;
caudal_maximo = the maximum-flow of flojet-1;
end;
segundos = ceiling(caudal / caudal_maximo * 30);
if segundos > 30 then segundos = 30;
if segundos < 0 then segundos = 0;
if segundos < 5 then segundos = segundos + 1;

```

```

if the setpoint-flojet-on of supervisor has a current value then
begin
collect data
segundos_actual = the setpoint-flojet-on of supervisor;
end;
if segundos = segundos_actual then go to fin;
end;

```

```

conclude that the setpoint-flojet-on of supervisor = segundos;
[inform the operator that "¡¡¡amada a update flojet: [segundos] segundos"!]
show the subspace of inf_p-fi;
change the sotre icon-color of inf_p-fi to yellow;
fin;
end

```

```

Notes PUMPS_STATES, a procedure
Authors OK
deb (20 Jul 1998 5:22 p.m.), juan
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6
Uninterrupted procedure execution limit use default
pump_state(salidas: class integer-array)
begin
Change the array-length of salidas to 24;

```

```

if salidas[0] = 1 then conclude that the state of out-set is on
else conclude that the state of out-set is off;
if salidas[1] = 1 then conclude that the state of pump-er is on
else conclude that the state of pump-er is off;
if salidas[1] = 1 then conclude that the state of pump-ir is on
else conclude that the state of pump-ir is off ;

```

```

if salidas[1] = 1 then conclude that the state of pump-c is on
else conclude that the state of pump-c is off ;
if salidas[1] = 1 then conclude that the state of pump-n is on
else conclude that the state of pump-n is off ;
if salidas[2] = 1 then conclude that the state of r3-settler is on
else conclude that the state of r3-settler is off;
if salidas[3] = 1 then conclude that the state of flojet-1 is on
else conclude that the state of flojet-1 is off;
if salidas[4] = 1 then conclude that the state of flojet-2 is on
else conclude that the state of flojet-2 is off;
end

```

```

FEED-PUMP-INFORM, a procedure
OK
Notes
Authors deb (4 Aug 1998 5:38 p.m.)
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6
Uninterrupted procedure execution limit use default
feed-pump-inform()
AD: class arrow;

```

```

begin
create an arrow-up AD;
transfer AD to the subspace of wsf-bombas at (-150,-200);
wait for 100 seconds;
delete AD;
end

```

```

VESSELS-CONC-INFORM, a procedure
OK
Notes
Authors deb (4 Aug 1998 5:47 p.m.)
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6
Uninterrupted procedure execution limit use default
vessels-conc-inform()
AD: class arrow;

```

```

begin
create an arrow-up AD;
transfer AD to the subspace of wsf-foto-plantas at (-210,-160);
wait for 100 seconds;
delete AD;
end

```

```

DO-PROBE-INFORM, a procedure
OK
Notes
Authors deb (5 Aug 1998 11:10 a.m.)
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6
Uninterrupted procedure execution limit use default
do-probe-inform()
AD: class arrow;

```

```

begin
create an arrow-left AD;
transfer AD to the subspace of wsf-reactor at (120,100);
show the subspace of wsf-reactor ;
wait for 100 seconds;
delete AD;
end

```

```

CYCLE-EXTERNAL-RECYCLE, a procedure
OK
Notes
Authors Juan (18 Feb 1999 10:55 a.m.)
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6

```

```

Uninterrupted procedure execution limit use default
cycle-external-recycle()
begin
  conclude that active-cycle-ER is true;
  wait for ER-cycle1-length = 0.75;
  conclude that DESIRE-EXTERNAL-RECYCLING= 0.5;
  wait for ER-cycle2-length;
  conclude that active-cycle-ER is false;
end

Notes
CYCLE-REACTORI, a procedure
OK
Juan (11 Dec 1998 7:28 p.m.), deb
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
cycle-reactori()
begin
  conclude that active-cycle is true;
  conclude that the setpoint-02-reactori of supervisor = 3.0;
  wait for oxix-cycle-length ;
  conclude that the setpoint-02-reactori of supervisor = 0.0;
  wait for anoixic-cycle-length;
  conclude that active-cycle is false;
end

Notes
ACT-EIKEL, a procedure
OK
deb (22 Jul 1998 5:16 p.m.)
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
act-eikel (inst: value) begin if (inst=0) then go to desact
else activate the subspace of PREG-EIKEL;
change the fletxa icon-color of preg-eikel to red;
activate the subspace of REGLES-EIKEL;
change the fletxa icon-color of regles-eikel to red;
show the subspace of preg-eikel;
go to fi;
desact :deactivate the subspace of PREG-EIKEL; change the fletxa
icon-color of preg-eikel to light-gray;
deactivate the subspace of REGLES-EIKEL;change the fletxa
icon-color of regles-eikel to light-gray;
hide the subspace of preg-eikel;
fi: end

Notes
UPDATE-MICROORG, a procedure
OK
deb (22 Jul 1998 7:41 p.m.)
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
update-microorg()
bicho: class microorganism;
begin
  for bicho-each microorganism do
    if is-contained-in-text (the text of the tipus of microorg, the
      text of the table-header of bicho) then conclude that the
      abundance of bicho=3;
  end;
end

Notes
UPDATE-MCRT, a procedure
OK
Juan (21 Nov 1998 12:35 p.m.), deb
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
update-mcrt()
waste-total,waste-required, purge-flow, per-one-flow,
time-purge: float;
m-total_m, outflow_final-waste, svv_final-waste,
svv_recycle-purge, flow-in_purge-electrovalve,
pc-setpoint-purge-timer_pc-process, d-mcrt: Float;
begin
  wait for 10 seconds;
  (inform the operator that "Cambiando MCRT";)
  collect data
  m-total_m= the m-total of m;
  outflow_final-waste= the outflow of final-waste;
  svv_final-waste= the svv of final-waste;
  svv_recycle-purge= the svv of recycle-purge;
  flow-in_purge-electrovalve= the flow-in of purge-electrovalve;
  pc-setpoint-purge-timer_pc-process= the pc-setpoint-purge-timer of pc-
  process;
  d-mcrt= desired-mcrt;
end;
waste-total = m-total_m / d-mcrt * 1000 / 60 / 24 {mg/min};
waste-required = waste-total - outflow_final-waste * svv_final-waste /
1000 {mg/min};
purge-flow = waste-required / (svv_recycle-purge / 1000) {ml/min};
per-one-flow = purge-flow / flow-in_purge-electrovalve;
time-purge = per-one-flow * (pc-setpoint-purge-timer_pc-process + 3998)
* 10 {d-ecimas de segundo};
purge = round( time-purge);
if purge > 9999 then purge = 9999;
if purge < 0 then purge = 0;
collect data
current-purge = the pc-setpoint-purge-time of pc-process;
end;
if (purge > 1.003 * current-purge or purge < 0.997 * current-purge) then
  begin
    conclude that the setpoint-purge-time of supervisor = purge;
    (inform the operator that "Purga: {purge} d-ecimas de segundos;")
    if (information-messages is true) then
      start information("New purge calculated: {purge} tenths of
      second ")
    else start write-log("New purge calculated: {purge} tenths of secon
    ");
  end;
end;
end

Notes
UPDATE-G2-SETPOINTS, a procedure
OK
Juan (9 Nov 1998 5:38 p.m.), deb
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
update-g2-setpoints()
i: integer;
valor1, valor2: quantity;
begin
  for i = 0 to the array-length of g2-setpoints - 1 do
    if g2-setpoints[i] has a current value then
      begin
        collect data
        valor1= g2-setpoints[i];
        valor2= pc-setpoints[i];
      end;
      if ( valor1 > 1.01 *valor2 or valor1 < 0.99 * valor2 ) then

```

```

begin
  set g2-setpoint[i] to valor1;
  {inform the operator that "Se ha reiniciado un
  setpoint de G2";}
  {start information("Setpoint G2 reiniciado");}
  start write-log("Setpoint G2 reiniciado");
end
end;
end

```

```

Notes
  Tracing and breakpoints
  Class of procedure invocation
  Default procedure priority
  Uninterrupted procedure execution limit use default
  extract_bits(valor: integer, vector: class integer-array)
  i, largo: integer;
begin
  largo= the array-length of vector - 1 ;
  for i=0 to largo do
    conclude that vector[i] = bitwise-and( valor,i);
    valor=bitwise-right-shift(valor,i);
  end;
end;

```

```

Notes
  Tracing and breakpoints
  Class of procedure invocation
  Default procedure priority
  Uninterrupted procedure execution limit use default
  restart-bridge()
begin
  {inform the operator that "Resetting GSI-bridge"}
  start information("GSI-communication lost. Resetting GSI-bridge ");
  change the text of the gsi-connection-configuration of gsi-gateway to
  "none";
  wait for 1 minute;
  change the text of the gsi-connection-configuration of gsi-gateway to
  "tcp-ip host -@'158.109.13.2-@" port-number 22041";
end

```

```

Notes
  Tracing and breakpoints
  Class of procedure invocation
  Default procedure priority
  Uninterrupted procedure execution limit use default
  act-acidid (codi:integer)
begin
  if (codi = 0) then go to deact
  else activate the subworkspace of acidid-dades;change the fletxa icon-
  color of acidid-dades to red;
  show the subworkspace of acidid-dades;
  go to fi;
  deact : deactivate the subworkspace of acidid-dades; change the
  fletxa icon-color of acidid-dades to light-gray ;
  hide the subworkspace of acidid-dades;
fi: end

```

```

Notes
  Authors
  Tracing and breakpoints
  ACT-DBACT, a procedure
  OR
  deb (19 Jun 1998 3:03 p.m.)
  default

```

```

Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
act-deact (codi:integer, ws: class obj-subws-deactiv)
begin
  if (codi = 0) then go to deact
  else activate the subworkspace of ws;
  change the fletxa icon-color of ws to red;
  show the subworkspace of ws;
  go to fi;
  deact :
  deactivate the subworkspace of ws;
  change the fletxa icon-color of ws to light-gray;
  hide the subworkspace of ws;
fi: end

```

```

Notes
  Tracing and breakpoints
  Class of procedure invocation
  Default procedure priority
  Uninterrupted procedure execution limit use default
  update-analyzers(i, t, max, tiempo_max: integer;
  file: class g2-stream;
  valor: float;
  analitor: class object;
begin
  tiempo_max=0;
  max=0;
  t=0;
  {inform the operator that "Invoking update analyzers"}
  wait for 30 seconds;
  for i=0 to 4 do
    if variables-analyzers[i] has a current value then
      t = the collection time of variables-analyzers[i];
      if t > tiempo_max then
        begin
          max=i;
          tiempo_max = t;
        end;
      end;
    end;
  if tiempo_max=0 then return;
  conclude that the output signal value of easi-no3 = the value of variables-
  analyzers[max] as of 0 datapoints ago with collection time the
  collection time of variables-analyzers[max] as of 0 datapoints ago {with
  expiration the expiration time of variables-analyzers[max]};
  conclude that the sample location of easi-no3 = max with collection time
  the collection time of variables-analyzers[max] as of 0 datapoints ago
  [with expiration the expiration time of variables-analyzers[max]];
  max=5;
  tiempo_max=0;
  for i=5 to 9 do
    t = the collection time of variables-analyzers [i];
    if t > tiempo_max then
      begin
        max=i;
        tiempo_max = t;
      end;
    end;
  end;

```

```

Notes
  Tracing and breakpoints
  Class of procedure invocation
  Default procedure priority
  Uninterrupted procedure execution limit use default
  UPDATE-ANALYZERS, a procedure
  OK
  Juan (22 Dec 1998 6:13 p.m.), deb
  procedure-invocation
begin
  conclude that the output signal value of easi-no2 = the value of variables-
  analyzers[max] as of 0 datapoints ago with collection time the
  collection time of variables-analyzers[max] as of 0 datapoints ago {with
  expiration the expiration time of variables-analyzers[max]};
  conclude that the sample location of easi-no2 = (max - 5) with collection
  time the collection time of variables-analyzers[max] as of 0 datapoints
  ago [with expiration the expiration time of variables-analyzers[max]];
  max=10;

```



```

call g2-write-line(file, " Orp - 1 - 2 - 3      Tiempo");

for t=i down to 0 by -2 do
  temps= the collection time of the orp of reactor-1 as of t
  datapoints ago;
  r1= the value of the orp of reactor-1 as of t datapoints ago;
  r2= the value of the orp of reactor-2 as of t datapoints ago;
  r3= the value of the orp of reactor-3 as of t datapoints ago;
  call g2-write-line(file, " [r1] [r2] [r3]      [day-of-the-month
    (temps) ] [month (temps) ] [year (temps) ] [hour(temps)
    (minute(temps) ) (second(temps))]" );
end;
call g2-close-file(file);
end

```

```

REGISTRO_NITRATOS-0, a procedure
Notes
  OK
Authors
  deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints
  default
Class of procedure invocation
  procedure-invocation
Default procedure priority
  6
Uninterrupted procedure execution limit
  use default
registros_nitratos-0()
i, t, temps: integer;
file: class g2-stream;
r1: float;
begin
  i = the number of history datapoints in the n-no3 of anaerobic - 1;
  file=call g2-open-file-for-write
    ("/usr/users/juan/datos/nitratos0.dat");
  call g2-write-line(file, " Nitratos - 0 -
    Tiempo");
for t=i down to 0 do
  temps= the collection time of the n-no3 of anaerobic as of t
  datapoints ago;
  r1= the value of the n-no3 of anaerobic as of t datapoints ago;
  call g2-write-line(file, " [r1 as dd.dddd] [day-of-the-month
    (temps) ] [month (temps) ] [year (temps) ] [hour(temps)
    (minute(temps) ) (second(temps))]" );
end;
call g2-close-file(file);
end

```

```

PRUEBA3, a procedure
Notes
  OK
Authors
  deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints
  default
Class of procedure invocation
  procedure-invocation
Default procedure priority
  6
Uninterrupted procedure execution limit
  use default
prueba3()
i, t: integer;
begin
  inform the operator that "se ha ejecutado el procedimiento Prueba-3";
  i = the number of history datapoints in the operation-problems of pilot
  for t=0 to i do
    inform the operator that "[the value of the operation-problems of
      pilot as of t datapoints ago] at [the collection time of the
      operation-problems of pilot as of t datapoints ago]";
  end;
end

```

```

tiempo_max=0;
for i=10 to 14 do
  t= the collection time of variables-analyzers[1];
  if t > tiempo_max then
    begin
      max=i;
      tiempo_max = t;
    end;
end;

```

conclude that the output\_signal\_value of easi-nh4 = the value of variables-analyzers[max] as of 0 datapoints ago with collection time the collection time of variables-analyzers[max] as of 0 datapoints ago {with expiration the expiration time of variables-analyzers[max]}; conclude that the sample\_location of easi-nh4 = (max - 10) with collection time the collection time of variables-analyzers[max] as of 0 datapoints ago {with expiration the expiration time of variables-analyzers[max]};

```

end
Notes
  DELAY, a procedure
  OK
Authors
  deb (19 Jun 1998 1:33 p.m.)
Tracing and breakpoints
  default
Class of procedure invocation
  none
Default procedure priority
  6
Uninterrupted procedure execution limit
  use default
delay()
begin
  wait for 30 seconds ;
end

```

```

PRUEBA1, a procedure
Notes
  OK
Authors
  deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints
  default
Class of procedure invocation
  procedure-invocation
Default procedure priority
  6
Uninterrupted procedure execution limit
  use default
prueba1()
i, t: integer;
begin
  inform the operator that "se ha ejecutado el procedimiento prueba-1";
  i = the number of history datapoints in the orp of reactor-1;
  for t=0 to i do
    inform the operator that "ORP-1 = [the value of the orp of reactor-
      1 as of t datapoints ago] at [the collection time of the orp of
      reactor-1 as of t datapoints ago]";
  end;
end

```

```

PRUEBA2, a procedure
Notes
  OK
Authors
  deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints
  default
Class of procedure invocation
  procedure-invocation
Default procedure priority
  6
Uninterrupted procedure execution limit
  use default
prueba2()
i, t, temps: integer;
file: class g2-stream;
r1, r2, r3: float;
begin
  i = the number of history datapoints in the orp of reactor-1 - 1;
  file=call g2-open-file-for-write ("/juan/datos/orp.dat");
end

```

```

Notes
-----
PRUEBA4, a procedure
OK
deb (19 Jun 1998 1:33 p.m.), Juan
Authors
Tracing and breakpoints
Class of procedure invocation default
Default procedure invocation procedure-invocation
Interrupted procedure execution limit use default
prueba4()
i, t: integer;
begin
    Inform the operator that "se ha ejecutado el procedimiento Prueba-4";
    i = the number of history datapoints in the reactors-mcrt of mcrt - 1;
    for t=0 to i do
        Inform the operator that "[the value of the reactors-mcrt of mcrt
        as of t datapoints ago] at [the collection time of the reactors-
        mcrt of mcrt as of t datapoints ago]";
    end;
end;

Notes
-----
PRUEBA5, a procedure
OK
deb (19 Jun 1998 1:33 p.m.), Juan
Authors
Tracing and breakpoints
Class of procedure invocation default
Default procedure invocation procedure-invocation
Interrupted procedure execution limit use default
prueba5()
i, t: integer;
begin
    Inform the operator that "se ha ejecutado el procedimiento Prueba-5";
    i = the number of history datapoints in the reactors-mcrt of mcrt - 1;
    for t=0 to i do
        Inform the operator that "[the value of the reactors-mcrt of mcrt
        as of t datapoints ago] at [the collection time of the reactors-
        mcrt of mcrt as of t datapoints ago]";
    end;
end;
    
```

```

Notes
-----
REGISTRO_ANALISIS2, a procedure
OK
deb (19 Jun 1998 1:33 p.m.), Juan
Authors
Tracing and breakpoints
Class of procedure invocation default
Default procedure invocation procedure-invocation
Interrupted procedure execution limit use default
registro_analisis2(analito: class object)
i, t, temps: integer;
file: class g2-stream;
valor: float;
nombre, fichero: text;
begin
    i = the number of history datapoints in analito - 1;
    { fichero="/usr/users/juan/datos/[the name of analito] [the name of
    analito].dat";
    file-call g2-open-file-for-write (fichero);
    }nombre = " [the text of the analito] [the text of the analito] ";
    nombre="prueba";
    call g2-write-line(file, nombre);
    for t=i down to 0 do
        temps= the collection time of analito as of t datapoints ago;
        valor= the value of analito as of t datapoints ago;
        call g2-write-line(file, " [valor as dd ddd] [day-of-the-month
        (temps)] [month (temps)] [year (temps)] [hour (temps)]
        [minute(temps)] [second(temps)]" );
    end;
end;
    
```

```

Notes
-----
REGISTRO_ANALIZADOR, a procedure
OK
deb (19 Jun 1998 1:33 p.m.), Juan
Authors
Tracing and breakpoints
Class of procedure invocation default
Default procedure invocation procedure-invocation
Interrupted procedure execution limit use default
registro_analizador(analito: class object)
i, t, temps: integer;
file: class g2-stream;
valor: float;
nombre, fichero: text;
begin
    i = the number of history datapoints in analito - 1;
    fichero="/usr/users/juan/datos/[the text of the parametro of
    analito] [the text of the localizacion of analito].dat";
    file-call g2-open-file-for-write (fichero);
    nombre = " [the text of the parametro of analito] [the text of the
    localizacion of analito] ";
    call g2-write-line(file, nombre);
    for t=i down to 0 do
        temps= the collection time of analito as of t datapoints ago;
        valor= the value of analito as of t datapoints ago;
        call g2-write-line(file, " [valor as dd ddd] [day-of-the-month
        (temps)] [month (temps)] [year (temps)] [hour(temps)]
        [minute(temps)] [second(temps)]" );
    end;
end;
    
```

```
(temps) | [month (temps) | [year (temps) | (hour (temps) |
[minute (temps) | [second (temps)]]]]];
end;
call g2-close-file(file);
end
```

PRUEBAD, a procedure

```
OK
deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
pruebad()
i, t: integer;
begin
```

```
i = (the number of history datapoints in the cod of anaerobic) - 1;
for t=0 to i do
inform the operator that "Cod = [the value of the cod of anaerobic
as of t datapoints ago] at [the collection time of the cod of
anaerobic as of t datapoints ago]";
end;
end
```

REGISTRO\_ANALISIS\_DIA, a procedure

```
OK
Juan (4 Sep 1998 7:35 a.m.), deb
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
registro_analisis_dia(tiempo: integer)
i, t, temps_actual, segons_inici, segons_final: integer;
file: class g2-stream;
valor: float;
nombre, fichero: text;
analito: class object;
begin
```

```
temps_actual = the current time;
segons_inici = temps_actual - time(year(tiempo),month(tiempo),
day-of-the-month(tiempo),0,0,0);
segons_final = temps_actual - time(year(tiempo),month(tiempo),
day-of-the-month(tiempo),23,59,59);
```

```
fichero="var/users/juan/datos/[day-of-the-
month(tiempo)]-[month(tiempo)]-[year(tiempo)].dat";
file-call g2-open-file-for-write (fichero);
call g2-write-string (file, " [day-of-the-
month(tiempo)]/[month(tiempo)]/[year(tiempo) - 1900] , " );
```

```
for i=0 to 59 do
collect data
analito = variables-registro[i];
end;
if (the average value of analito between segons_inici seconds ago and
segons_final seconds ago) has a current value then
begin
valor= the average value of analito between segons_inici seconds
ago and segons_final seconds ago;
```

```
call g2-write-string (file, " [valor as dddd.dd] , " );
end
else
call g2-write-string(file, ", " );
end;
end
```

```
end
call g2-close-file(file);
end
```

READ-OFFLINE-DATA, a procedure

```
OK
deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
read-offline-data()
```

```
file: class g2-stream;
line,line2: text;
i, j, k, parametro, punto: integer;
parametros: class text-array;
cod, vss, tss, no3, no2, nh4, tkn, po4: class float-array;
minutos, horas, dias, mes, a-no: class integer-array;
comments: text="";
avi:float;
```

```
begin
create a float-array cod;
change the array-length of cod to 7;
create a float-array vss;
change the array-length of vss to 7;
create a float-array tss;
change the array-length of tss to 7;
create a float-array no3;
change the array-length of no3 to 7;
create a float-array no2;
change the array-length of no2 to 7;
create a float-array nh4;
change the array-length of nh4 to 7;
create a float-array tkn;
change the array-length of tkn to 7;
create a float-array po4;
change the array-length of po4 to 7;
create a integer-array minutos;
change the array-length of minutos to 8;
create a integer-array horas;
change the array-length of horas to 8;
create a integer-array dias;
change the array-length of dias to 8;
create a integer-array mes;
change the array-length of mes to 8;
create a integer-array a-no;
change the array-length of a-no to 8;
```

```
create a text-array parametros;
change the array-length of parametros to 12;
```

```
conclude that parametros[0]="date";
conclude that parametros[1]="time";
conclude that parametros[2]="cod";
conclude that parametros[3]="vss";
conclude that parametros[4]="tss";
conclude that parametros[5]="no3";
conclude that parametros[6]="no2";
conclude that parametros[7]="nh4";
conclude that parametros[8]="tkn";
conclude that parametros[9]="po4";
conclude that parametros[10]="avi";
conclude that parametros[11]="comments";
```

```
file-call g2-open-file-for-read ("var/mail/depura");
```

```
limpieza:
for i= 0 to 6 do
conclude that cod[i]=1;
conclude that vss[i]=1;
conclude that tss[i]=1;
conclude that no3[i]=1;
conclude that no2[i]=1;
```

```

conclude that nh4[i]=-1;
conclude that pod[i]=-1;
conclude that tkn[i]=-1;
conclude that minutos[i]=-1;
conclude that dias[i]=-1;
conclude that horas[i]=-1;
conclude that mes[i]=-1;
conclude that a-no[i]=-1;
end;

conclude that minutos[7]=-1;
conclude that dias[7]=-1;
conclude that horas[7]=-1;
conclude that mes[7]=-1;
conclude that a-no[7]=-1;
svi=-1;

10: line-call g2-read-line(file);
if (the g2-stream-status of file = the symbol end-of-file-reached)
then go to 1000;
if is-contained-in-text('microbiological submission',line) then call
read-microbiological-data(file);
if not(is-contained-in-text('userid',line)) then go to 10;
if not(is-contained-in-text('analizador',line)) then go to 10;

20: line-call g2-read-line(file);
if (is-contained-in-text('-----',line)) then go to renueva;
line-call g2-read-line(file);
if (is-contained-in-text('-----',line)) then go to renueva;
parameter=-1;
for i=0 to 9 do {parameter}
for j=0 to 7 do {punto}
begin
if is-contained-in-text('parameters[1][j]',line) then
parameter=i;
punto=j;
go to bien;
end;
end;

bien:
for i=6 to length-of-text(line) do
line2=get-from-text(line,i,1);
exit if text-begins-with-quantity(line2);
end;

case {parameter} of
0:
begin
line=get-from-text(line,1,length-of-text(line));
conclude that dias[punto]=quantity(line);
line=get-from-text(line,position-of-text('/',line)+1,length-of-
text(line));
conclude that mes[punto]=quantity(line);
line=get-from-text(line,position-of-text('/',line)+1,length-of-
text(line));
conclude that a-no[punto]=quantity(line);
end;
1:
begin
line=get-from-text(line,1,length-of-text(line));
conclude that horas[punto]=quantity(line);
line=get-from-text(line,position-of-text('/',line)+1,length-of-
text(line));
conclude that minutos[punto]=quantity(line);
end;
2:
conclude that cod[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
3:
conclude that vas[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
4:

```

```

conclude that tss[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
5:
conclude that nos[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
6:
conclude that no2[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
7:
conclude that nh4[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
8:
conclude that tkn[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
9:
conclude that pod[punto]=quantity(get-from-text(line,1,length-of-
text(line)));
10: svi=quantity(get-from-text(line,1,length-of-text(line)));
11: comentarios=get-from-text(line,10,length-of-text(line));
otherwise:
go to 20;
end;

go to 20;

renueva:
call update-offline-data(cod, vas, tss, nos, no2, nh4, tkn, pod,
minutos, horas, dias, mes, a-no, svi, comentarios);
go to limpieza;

1000:
call g2-close-file(file);
{file-call g2-open-file-for-write('/var/mail/depura');
call g2-close-file(file);}
end

UPDATE-OFFLINE-DATA, a procedure
Notes
OK
Authors deb (19 Jun 1998 1:33 p.m.), Juan
Tracing and breakpoints default
Class of procedure invocation none
Default procedure priority 6
Uninterrupted procedure execution limit use default
update-offline-data(cod: class float-array, vas: class float-array, tss:
class float-array, nos: class float-array, no2: class float-array, nh4:
class float-array, tkn: class float-array, pod: class float-
array, minutos: class integer-array, horas: class integer-array, dia:
class integer-array, mes: class integer-array, a-no: class integer-array,
svi: float, comentarios: text)
1. tiempo: integer;
tiempos: class integer-array;
begin
create a integer-array tiempos;
change the array-length of tiempos to 8;
for i = 0 to 7 do
if minutos[i]>= 0 and minutos[i]<=59 and horas[i]>=0 and horas[i]
<=23 and dia[i]>=1 and dia[i]<=31 and mes[i]>=1 and mes[i] <=12
and a-no[i] >=1997 and a-no[i] <= 2005 then conclude that
tiempos[i]=time(a-no[i],mes[i],dia[i],horas[i],minutos[i],0)
else conclude that tiempos[i]=the current time;
inform the operator that "[i] [a-no[i]] [mes[i]] [dia[i]] [horas[i]]
[minutos[i]]";
end;
{ for i = 0 to 7 do
inform the operator that "[i] [tiempos[i]]";
end;}
If cod[0]>= 0 and cod[0]< 10000 then conclude that the cod of anaerobic
= cod[0] with collection time tiempos[0] {with expiration
(tiempos[0] + 7 day)};

```

```

if cod[1]>= 0 and cod[1]< 10000 then conclude that the cod of reactor-1
= cod[1] with collection time tiempos[1] {with expiration (tiempos[1]
+ 7 day)};
if cod[2]>= 0 and cod[2]< 10000 then conclude that the cod of reactor-2
= cod[2] with collection time tiempos[2] {with expiration (tiempos[2]
+ 7 day)};
if cod[3]>= 0 and cod[3]< 10000 then conclude that the cod of reactor-3
= cod[3] with collection time tiempos[3] {with expiration (tiempos[3]
+ 7 day)};
if cod[4]>= 0 and cod[4]< 10000 then conclude that the cod of final-
waste = cod[4] with collection time tiempos[4] {with expiration
(tiempos[4] + 7 day)};
if cod[5]>= 0 and cod[5]< 10000 then conclude that the cod of settler-1
= cod[5] with collection time tiempos[5] {with expiration (tiempos[5]
+ 7 day)};
if cod[6]>= 0 and cod[6]< 10000 then conclude that the cod of box-1 =
cod[6] with collection time tiempos[6] {with expiration (tiempos[6] +
7 day)};

if vas[0]>= 0 and vas[0]< 30000 then conclude that the sav of anaerobic =
vas[0] with collection time tiempos[0] {with expiration 7 day};
if vas[1]>= 0 and vas[1]< 30000 then conclude that the sav of reactor-1 =
vas[1] with collection time tiempos[1] {with expiration 7 day};
if vas[2]>= 0 and vas[2]< 30000 then conclude that the sav of reactor-2 =
vas[2] with collection time tiempos[2] {with expiration 7 day};
if vas[3]>= 0 and vas[3]< 30000 then conclude that the sav of reactor-3 =
vas[3] with collection time tiempos[3] {with expiration 7 day};
if vas[4]>= 0 and vas[4]< 30000 then conclude that the sav of final-waste
= vas[4] with collection time tiempos[4] {with expiration 7 day};
if vas[5]>= 0 and vas[5]< 30000 then conclude that the sav of settler-1 =
vas[5] with collection time tiempos[5] {with expiration 7 day};

if tss[0]>= 0 and tss[0]< 30000 then conclude that the set of anaerobic =
tss[0] with collection time tiempos[0] {with expiration 7 day};
if tss[1]>= 0 and tss[1]< 30000 then conclude that the set of reactor-1 =
tss[1] with collection time tiempos[1] {with expiration 7 day};
if tss[2]>= 0 and tss[2]< 30000 then conclude that the set of reactor-2 =
tss[2] with collection time tiempos[2] {with expiration 7 day};
if tss[3]>= 0 and tss[3]< 30000 then conclude that the set of reactor-3 =
tss[3] with collection time tiempos[3] {with expiration 7 day};
if tss[4]>= 0 and tss[4]< 30000 then conclude that the set of final-waste
= tss[4] with collection time tiempos[4] {with expiration 7 day};
if tss[5]>= 0 and tss[5]< 30000 then conclude that the set of settler-1 =
tss[5] with collection time tiempos[5] {with expiration 7 day};

if no3[0]>= 0 and no3[0]< 100 then conclude that the n-no3 of anaerobic
= no3[0] with collection time tiempos[0] {with expiration
(tiempos[0] + 3 day)};
if no3[1]>= 0 and no3[1]< 100 then conclude that the n-no3 of reactor-1
= no3[1] with collection time tiempos[1] {with expiration
(tiempos[1] + 3 day)};
if no3[2]>= 0 and no3[2]< 100 then conclude that the n-no3 of reactor-2
= no3[2] with collection time tiempos[2] {with expiration
(tiempos[2] + 3 day)};
if no3[3]>= 0 and no3[3]< 100 then conclude that the n-no3 of reactor-3
= no3[3] with collection time tiempos[3] {with expiration
(tiempos[3] + 3 day)};
if no3[4]>= 0 and no3[4]< 100 then conclude that the n-no3 of final-
waste = no3[4] with collection time tiempos[4] {with expiration
(tiempos[4] + 3 day)};
if no3[5]>= 0 and no3[5]< 100 then conclude that the n-no3 of settler-1
= no3[5] with collection time tiempos[5] {with expiration (tiempos[5]
+ 3 day)};
if no3[6]>= 0 and no3[6]< 100 then conclude that the n-no3 of box-1 =
no3[6] with collection time tiempos[6] {with expiration (tiempos[6] +
3 day)};

if no2[0]>= 0 and no2[0]< 100 then conclude that the n-no2 of anaerobic
= no2[0] with collection time tiempos[0] {with expiration
(tiempos[0] + 3 day)};
if no2[1]>= 0 and no2[1]< 100 then conclude that the n-no2 of reactor-1
= no2[1] with collection time tiempos[1] {with expiration
(tiempos[1] + 3 day)};
if no2[2]>= 0 and no2[2]< 100 then conclude that the n-no2 of reactor-2
= no2[2] with collection time tiempos[2] {with expiration
(tiempos[2] + 3 day)};
if no2[3]>= 0 and no2[3]< 100 then conclude that the n-no2 of reactor-3
= no2[3] with collection time tiempos[3] {with expiration
(tiempos[3] + 3 day)};

```

```

= no2[3] with collection time tiempos[3] {with expiration
(tiempos[3] + 3 day)};
if no2[4]>= 0 and no2[4]< 100 then conclude that the n-no2 of final-
waste = no2[4] with collection time tiempos[4] {with expiration
(tiempos[4] + 3 day)};
if no2[5]>= 0 and no2[5]< 100 then conclude that the n-no2 of settler-1
= no2[5] with collection time tiempos[5] {with expiration
(tiempos[5] + 3 day)};
if no2[6]>= 0 and no2[6]< 100 then conclude that the n-no2 of box-1 =
no2[6] with collection time tiempos[6] {with expiration (tiempos[6]
+ 3 day)};

if nh4[0]>= 0 and nh4[0]< 100 then conclude that the n-nh4 of anaerobic
= nh4[0] with collection time tiempos[0] {with expiration
(tiempos[0] + 3 day)};
if nh4[1]>= 0 and nh4[1]< 100 then conclude that the n-nh4 of reactor-1
= nh4[1] with collection time tiempos[1] {with expiration
(tiempos[1] + 3 day)};
if nh4[2]>= 0 and nh4[2]< 100 then conclude that the n-nh4 of reactor-2
= nh4[2] with collection time tiempos[2] {with expiration
(tiempos[2] + 3 day)};
if nh4[3]>= 0 and nh4[3]< 100 then conclude that the n-nh4 of reactor-3
= nh4[3] with collection time tiempos[3] {with expiration
(tiempos[3] + 3 day)};
if nh4[4]>= 0 and nh4[4]< 100 then conclude that the n-nh4 of final-
waste = nh4[4] with collection time tiempos[4] {with expiration
(tiempos[4] + 3 day)};
if nh4[5]>= 0 and nh4[5]< 100 then conclude that the n-nh4 of settler-1
= nh4[5] with collection time tiempos[5] {with expiration
(tiempos[5] + 3 day)};
if nh4[6]>= 0 and nh4[6]< 100 then conclude that the n-nh4 of box-1 =
nh4[6] with collection time tiempos[6] {with expiration (tiempos[6]
+ 3 day)};

if tkn[0]>= 0 and tkn[0]< 100 then conclude that the n-tn of anaerobic =
tkn[0] with collection time tiempos[0] {with expiration (tiempos[0] +
3 day)};
if tkn[1]>= 0 and tkn[1]< 100 then conclude that the n-tn of reactor-1
= tkn[1] with collection time tiempos[1] {with expiration
(tiempos[1] + 3 day)};
if tkn[2]>= 0 and tkn[2]< 100 then conclude that the n-tn of reactor-2
= tkn[2] with collection time tiempos[2] {with expiration
(tiempos[2] + 3 day)};
if tkn[3]>= 0 and tkn[3]< 100 then conclude that the n-tn of reactor-3
= tkn[3] with collection time tiempos[3] {with expiration
(tiempos[3] + 3 day)};
if tkn[4]>= 0 and tkn[4]< 100 then conclude that the n-tn of final-
waste = tkn[4] with collection time tiempos[4] {with expiration
(tiempos[4] + 3 day)};
if tkn[5]>= 0 and tkn[5]< 100 then conclude that the n-tn of settler-1
= tkn[5] with collection time tiempos[5] {with expiration (tiempos[5]
+ 3 day)};
if tkn[6]>= 0 and tkn[6]< 100 then conclude that the n-tn of box-1 =
tkn[6] with collection time tiempos[6] {with expiration (tiempos[6]
+ 3 day)};

if po4[0]>= 0 and po4[0]< 100 then conclude that the p-po4 of anaerobic
= po4[0] with collection time tiempos[0] {with expiration
(tiempos[0] + 3 day)};
if po4[1]>= 0 and po4[1]< 100 then conclude that the p-po4 of reactor-1
= po4[1] with collection time tiempos[1] {with expiration
(tiempos[1] + 3 day)};
if po4[2]>= 0 and po4[2]< 100 then conclude that the p-po4 of reactor-2
= po4[2] with collection time tiempos[2] {with expiration
(tiempos[2] + 3 day)};
if po4[3]>= 0 and po4[3]< 100 then conclude that the p-po4 of reactor-3
= po4[3] with collection time tiempos[3] {with expiration
(tiempos[3] + 3 day)};
if po4[4]>= 0 and po4[4]< 100 then conclude that the p-po4 of final-
waste = po4[4] with collection time tiempos[4] {with expiration
(tiempos[4] + 3 day)};
if po4[5]>= 0 and po4[5]< 100 then conclude that the p-po4 of settler-1
= po4[5] with collection time tiempos[5] {with expiration (tiempos[5]
+ 3 day)};
if po4[6]>= 0 and po4[6]< 100 then conclude that the p-po4 of box-1 =
po4[6] with collection time tiempos[6] {with expiration (tiempos[6]
+ 3 day)};

```

Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-WRITE-LINE-IN-GENSYM-CHARSET, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-WRITE-STRING-IN-GENSYM-CHARSET, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-DEVICE-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-VERSION-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-PARTITION-FILESTRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-COLLECT-INTO-FILESTRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-BASE-NAME-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-DIRECTORY-LIST-TO-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

G2-FILE-EXTENSION-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-HOST-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-DIRECTORY-STRING, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-FILE-DIRECTORY-STRING-TO-LIST, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-SPAWN-PROCESS-TO-RUN-COMMAND-LINE, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-GET-COMMAND-LINE-ARGUMENT-FROM-LAUNCH, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-KILL-PROCESS, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-DESCRIBE-G2-LICENSE, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default

.....

G2-ROUTE-WINDOW, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.), mhd  
 Tracing and breakpoints default

Class of procedure invocation  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-HOST-NAME, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-PORT-NUMBER-OR-NAME, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-NETWORK-TYPE, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-NETWORK-TYPE-GIVEN-INDEX, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-PORT-NUMBER-OR-NAME-GIVEN-INDEX, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-UNIX-TIME, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-UNIX-TIME-AT-START, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-UNIX-TIME-TO-TEXT, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-BEEP, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-SAVE-KB, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-SNAPSHOT, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-SAVE-MODULE, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-LOAD-KB, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-MERGE-KB, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-WARMBOOT-KB, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-DELETE-MODULE, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

G2-START-MODEL, a procedure  
 OK  
 Cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-RESUME-MODEL, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-PAUSE-MODEL, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-CURRENT-MODEL-DEFINITION, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-RESET-MODEL, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-GET-MODEL-SIMULATION-TIME, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-SET-MODEL-SIMULATION-TIME-INCREMENT, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-SET-MODEL-SIMULATION-TIME-INCREMENT, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-GET-CONNECTION-VERTICES, a procedure

Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-GET-ITEMS-CONNECTED-NO-PORT, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-ARRAY-SUM-ABS, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-ARRAY-SUM, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-ARRAY-MAX, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-ARRAY-MIN, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-GET-MATRIX-DIMENSIONS, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-ARRAY-COPY, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

G2-ARRAY-MULTIPLY, a procedure  
 Notes OK  
 Authors cpm (30 May 1995 2:06 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....



Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-ARRAY-EQUAL, a procedure  
 cpm (30 May 1995 2:06 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-ARRAY-SUBTRACT, a procedure  
 cpm (30 May 1995 2:06 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-ARRAY-ADD, a procedure  
 cpm (30 May 1995 2:06 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SCALAR-MULTIPLY, a procedure  
 cpm (30 May 1995 2:06 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-MATRIX-MULTIPLY, a procedure  
 cpm (14 Jun 1995 6:29 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-LU-BACK-SUBSTITUTE, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-LU-DECOMPOSE, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-LU-SOLVE, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-TRANSPOSE, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Authors cpm (30 May 1995 2:07 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-ARRAY-COPY-ELEMENTS-TO-INITIAL-VALUES, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SPARSE-ADD, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SPARSE-GATHER, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SPARSE-SCATTER, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SPARSE-SET, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SPARSE-GST, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-SPARSE-MULTIPLY, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

Notes  
 OK  
 G2-INDEXED-ATTRIBUTE-ITEM-LIST, a procedure  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 Tracing and breakpoints none  
 Class of procedure invocation 6  
 Default procedure priority use default  
 Uninterrupted procedure execution limit use default  
 ....

.....  
 Notes G2-DISK-SPACE-AVAILABLE-IN-DIRECTORY, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-CHANGE-DEFAULT-DIRECTORY, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-DEFAULT-DIRECTORY, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-DIRECTORY-EXISTS, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-SUBDIRECTORIES-IN-DIRECTORY, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-FILES-IN-DIRECTORY, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-REGISTER-ON-NETWORK, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-DEREGISTER-ON-NETWORK, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-GET-ITEM-FROM-NETWORK-HANDLE, a procedure  
 Authors OK  
 cpm (30 May 1995 2:07 p.m.)

.....  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-GET-NETWORK-HANDLE-FROM-ITEM, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-ENABLE-PROFILING, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-DISABLE-PROFILING, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-CLEAR-PROFILE, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-GET-PROFILED-INFORMATION, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes G2-NAMS-FOR-ITEM, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.), rfd  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes PROFILED-ITEMS, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

.....  
 Notes ALL-PROFILED-ACTIVITIES, a procedure  
 Authors OK  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit use default  
 .....

```

SYSTEM-PROFILE-DATA, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

PROFILED-ACTIVITIES, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-LIFT-ITEM-TO-TOP, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-DROP-ITEM-TO-BOTTOM, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-LIFT-ITEM-IN-FRONT-OF, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-DROP-ITEM-BEHIND, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-LAST-INPUT-EVENT, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-REFRESH-IMAGE-DEFINITION, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-GET-ITEM-LAYER-POSITION, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

```

```

Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-GET-WORKSPACE-LAYER-POSITION, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-LIFT-WORKSPACE-TO-TOP, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-LIFT-WORKSPACE-IN-FRONT-OF, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-DROP-WORKSPACE-TO-BOTTOM, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-DROP-WORKSPACE-BEHIND, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-SET-WORKSPACE-LAYER-POSITION, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-X-IN-WINDOW, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

G2-Y-IN-WINDOW, a procedure
OK
Notes
  cpm (30 May 1995 2:07 p.m.)
  default
  none
Tracing and breakpoints
Class of procedure invocation
Default procedure priority
Uninterrupted procedure execution limit use default
.....

```

Notes  
 G2-Y-IN-WORKSPACE, a procedure  
 OK  
 Authors  
 Tracing and breakpoints  
 Class of procedure invocation cpm (30 May 1995 2:07 p.m.)  
 Default procedure priority default  
 Uninterrupted procedure execution limit none  
 .....  
 G2-X-IN-WORKSPACE, a procedure  
 OK  
 Authors  
 Tracing and breakpoints  
 Class of procedure invocation cpm (30 May 1995 2:07 p.m.)  
 Default procedure priority default  
 Uninterrupted procedure execution limit none  
 .....  
 G2-X-SCALE-OF-WORKSPACE-IN-WINDOW, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-Y-SCALE-OF-WORKSPACE-IN-WINDOW, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-SET-REFLECTION-AND-ROTATION, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-GET-REFLECTION-AND-ROTATION, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-COMBINE-REFLECTION-AND-ROTATION, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-ITEM-IS-SHOWING-IN-WINDOW, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-CHANGE-SIZE-OF-ITEM-PER-AREA, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Uninterrupted procedure execution limit none

Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 .....  
 G2-MOVE-FROM-AREA-OF-WORKSPACE, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-REFLECT-ITEM-HORIZONTALLY, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-REFLECT-ITEM-VERTICALLY, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-SYSTEM-PREDICATE, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-SET-TEXT-OF-TREND-CHART-COMPONENT, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-GET-TEXT-OF-TREND-CHART-COMPONENT, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-SET-TEXT-OF-TREND-CHART-COMPONENT, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.)  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-SET-POINT-OF-TEXT-BOX, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:07 p.m.), mhd  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-GET-POINT-OF-TEXT-BOX, a procedure  
 OK  
 Authors  
 Tracing and breakpoints cpm (30 May 1995 2:11 p.m.), mhd  
 Class of procedure invocation default  
 Default procedure priority none  
 Uninterrupted procedure execution limit 6  
 .....  
 G2-DELETE-TREND-CHART-COMPONENT, a procedure

OK  
 cpm (30 May 1995 2:07 p.m.), jed  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-ADD-TREND-CHART-COMPONENT, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), jed  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-WORK-ON-DRAWING, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), fmw  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-WORK-ON-PRINTING, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), fmw  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-PROCEDURE-PARTITION, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), rdf  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-OPTIMIZED-QUICKSORT, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), rdf  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

QUICKSORT-1, a procedure  
 OK  
 rdf (5 Sep 1995 4:48 p.m.), cpm  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-POP-INTEGERS-LIST, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-SORT, a procedure  
 OK  
 rdf (5 Sep 1995 4:44 p.m.), cpm  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

Uninterrupted procedure execution limit use default  
 ....

G2-MEASURE-MEMORY, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-SYSTEM-COMMAND, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.)  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-SOFTWARE-VERSION, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), jh  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-SET-MOVEMENT-LIMITS, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), fmw  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-CLEAR-MOVEMENT-LIMITS, a procedure  
 OK  
 cpm (30 May 1995 2:07 p.m.), fmw  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-SET-ITEM-COLOR-PATTERN, a procedure  
 OK  
 dwr (30 Aug 1995 6:52 p.m.), mhd  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-ITEM-COLOR-PATTERN, a procedure  
 OK  
 dwr (30 Aug 1995 6:52 p.m.), mhd  
 default  
 none  
 6  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 ....

G2-GET-DEFAULT-ITEM-COLOR-PATTERN, a procedure  
 OK



Tracing and breakpoints  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 . . . . .

Notes  
 Authors  
 Tracing and breakpoints  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 . . . . .

    GUIDE-CREATE-GOTO-WORKSPACE-BUTTON, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    UUI-CREATE-NAVIGATION-BUTTON, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    UUI-DELETE-NAVIGATION-BUTTON, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UUI-DELETE-NAVIGATION-BUTTON-METHOD, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UUI-SELECT-NAVIGATION-BUTTON, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UUI-LIFT-TO-TOP, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    GUIDE-IS-CONTAINED-IN, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UUI-RESET-BUTTON, a procedure  
     OK  
     guide (1 Sep 1995 3:44 p.m.), jpt, dwr  
     default  
     none  
     6

    . . . . .

UUI-HIGHLIGHT-BUTTON, a procedure  
 OK  
 guide (1 Sep 1995 3:44 p.m.), jpt, dwr  
 default  
 none  
 6

Notes  
 Authors  
 Tracing and breakpoints  
 Class of procedure invocation  
 Default procedure priority  
 Uninterrupted procedure execution limit use default  
 . . . . .

    UPP-GET-NAVIGATION-BUTTON-CONFIGURATION, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    GUIDE-CREATE-PRINT-BUTTON, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UUI-HANDLE-WORKSPACE-BUTTON-METHOD, a procedure  
     OK  
     guide (5 Jul 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UPP-RESET-BUTTON-INTERNAL, a procedure  
     OK  
     dwr (19 Aug 1995 12:44 p.m.), Guide  
     default  
     none  
     6

    . . . . .

    UUI-GET-LABEL-TEXT, a procedure  
     OK  
     guide (21 Aug 1995 4:36 p.m.)  
     default  
     none  
     6

    . . . . .

    UPP-LOWER-BUTTON, a procedure  
     OK  
     guide (24 Aug 1995 11:57 a.m.), jpt, dwr  
     default  
     none  
     6

    . . . . .

    UPP-RAISE-BUTTON, a procedure  
     OK  
     dwr (31 Aug 1995 7:29 p.m.), Guide, jpt  
     default  
     none  
     6

    . . . . .

    UPP-BUTTON-MOUSE-TRACKING-INTERNAL, a procedure  
     OK  
     kwf (14 Sep 1995 12:09 p.m.), Guide, dwr, jpt,  
     gensym

Notes  
 Authors

Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

UPP-POST-SHORT-DESCRIPTION-ON-WINDOW, a procedure  
 Notes OK  
 Authors genasm (19 Aug 1995 4:41 p.m.), dwr  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

UPP-DISMISS-SHORT-DESCRIPTION-ON-WINDOW, a procedure  
 Notes OK  
 Authors dwr (18 Aug 1995 7:44 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

UPP-MOVE-BUTTON, a procedure  
 Notes OK  
 Authors jpt (23 Aug 1995 1:34 p.m.), dwr  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

UPP-SELECT-WORKSPACE-BUTTON, a procedure  
 Notes OK  
 Authors guide (22 Aug 1995 7:17 p.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

UPP-GET-WORKSPACE-BUTTON-CONFIGURATION, a procedure  
 Notes OK  
 Authors guide (23 Aug 1995 11:42 a.m.)  
 Tracing and breakpoints default  
 Class of procedure invocation none  
 Default procedure priority 6  
 Uninterrupted procedure execution limit use default  
 ....

...../  
 REGLAS DEFINIDAS EN EL SISTEMA EXPERTO DESARROLLADO  
 .....

\*\* Genasm G2 Knowledge Base Inspection Output  
 \*\* From KB: /usr/sets/juan/Supar/Temporal.kb  
 \*\* File: /quantum/juan/bmp/rule-jb.qp  
 \*\* Written at: 16 Jun 95 3:22:43 P.m.

\*\* Command:  
 write to the file "/quantum/juan/bmp/rule-jb"  
 every rule containing the word deb or  
 containing the word juan  
 \*\* Results follow this line:

Options a rule  
 Notes invocable via backward chaining, invocable via  
 Authors forward chaining, may cause data seeking, may  
 Names cause forward chaining  
 Tracing and breakpoints OK, but DISABLED.  
 unconditionally inform the operator that "Hola [ the value of the n-no3 of reactor-1 as  
 of 0 datapoints ago]"  
 Scan interval deb (19 Jun 1998 1:33 p.m.), juan  
 Focal classes none  
 Focal objects none  
 Categories 6  
 Rule priority 1  
 Depth first backward chaining precedence use default  
 Timeout for rule completion 1

Options a rule  
 Notes invocable via backward chaining, invocable via  
 Authors forward chaining, may cause data seeking, may  
 Names cause forward chaining  
 Tracing and breakpoints OK, but DISABLED.  
 if the n-no3 of reactor-1 has no current value then inform the operator that "valor  
 caducado"  
 Scan interval deb (19 Jun 1998 1:33 p.m.), juan  
 Focal classes none  
 Focal objects none  
 Categories 6  
 Rule priority 1  
 Depth first backward chaining precedence use default  
 Timeout for rule completion 1

Options a rule  
 Notes invocable via backward chaining, invocable via  
 Authors forward chaining, may cause data seeking, may  
 Names cause forward chaining  
 Tracing and breakpoints OK  
 unconditionally change the size of every workspace of this workspace to minimum  
 Scan interval deb (19 Jun 1998 1:33 p.m.), juan  
 Focal classes none  
 Focal objects none  
 Categories 6  
 Rule priority 1  
 Depth first backward chaining precedence use default  
 Timeout for rule completion 1

Options a rule  
 invocable via backward chaining, invocable via



forward chaining, may cause data seeking, may cause forward chaining  
 OK, BUT DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan  
 Names none  
 Tracing and breakpoints default  
 unconditionally inform the operator that "flow: [the flow-out-2 of purge-electrovalve]"  
 Scan interval 1 minute  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 12:01 p.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the maximum value of ph-influent during the last 1 hour < (7.5 - marge-ph-inf) then conclude that temor-bulking is true  
 (ph bajo, aviso)  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 2  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 11:48 a.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the maximum value of ph-influent during the last 1 hour > (the minimum value of ph-influent during the last 1 hour + 2 \* marge-ph-inf) then conclude that temor-bulking is true  
 (ph variable)  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 2  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (29 Jul 1998 11:01 a.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the standard deviation of the o2 of reactor-1 during the last 1 hour > std-dev-limit-02 then show the subspace of inf\_b-p-13 and change the sobre icon-color of inf\_b-p-13 to yellow  
 Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

OK  
 deb (29 Jul 1998 11:01 a.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the standard deviation of the o2 of reactor-2 during the last 1 hour > std-dev-limit-02 then show the subspace of inf\_b-p-14 and change the sobre icon-color of inf\_b-p-14 to yellow  
 Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (29 Jul 1998 11:01 a.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the standard deviation of the o2 of reactor-3 during the last 1 hour > std-dev-limit-02 then show the subspace of inf\_b-p-15 and change the sobre icon-color of inf\_b-p-15 to yellow  
 Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (19 Nov 1998 12:06 p.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the standard deviation of the o2 of reactor-1 during the last 1 hour > std-dev-limit-02 and (the setpoint-pid-reactor1 of supervisor has no current value or the setpoint-pid-reactor1 = 1) then start informat1 ("The DO PID of reactor-1 has been disabled because the DO probe has a very noisy behaviour") and conclude that the setpoint-pid-reactor1 of supervisor = 2 and conclude that the setpoint-ma-reactor1 of supervisor = 4.0  
 Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (6 Nov 1998 4:03 p.m.)  
 Authors none  
 Names none  
 Tracing and breakpoints default  
 if the setpoint-pid-reactor1 of supervisor = 2 and the standard deviation of the o2 of reactor-1 during the last 1 hour < std-dev-limit-inf-02 then start informat1 ("The DO PID of reactor-1 has been enabled because the DO probe has a stable behaviour") and conclude that the setpoint-pid-reactor1 of supervisor = 1  
 Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (6 Nov 1998 4:03 p.m.)  
 none

Notes  
 Tracing and breakpoints  
 If the standard deviation of the o2 of reactor-2 during the last 1 hour > std-dev-limit2-o2 and (the setpoint-pid-reactor2 of supervisor has no current value or the setpoint-pid-reactor2 = 1) then start information(" The DO PID of reactor-2 has been disabled because the DO probe has a very noisy behaviour") and conclude that the setpoint-pid-reactor2 of supervisor = 2 and conclude that the setpoint-ma-reactor2 of supervisor = 14.0

Names  
 Juan (6 Nov 1998 4:03 p.m.)  
 none

Authors  
 Juan (6 Nov 1998 4:03 p.m.)  
 none

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (6 Nov 1998 4:03 p.m.)  
 none

Notes  
 Tracing and breakpoints  
 If the standard deviation of the o2 of reactor-3 during the last 1 hour > std-dev-limit2-o2 and (the setpoint-pid-reactor3 of supervisor has no current value or the setpoint-pid-reactor3 = 1) then start information(" The DO PID of reactor-3 has been disabled because the DO probe has a very noisy behaviour") and conclude that the setpoint-pid-reactor3 of supervisor = 2 and conclude that the setpoint-ma-reactor3 of supervisor = 12.0

Names  
 Juan (6 Nov 1998 4:03 p.m.)  
 none

Authors  
 Juan (6 Nov 1998 4:03 p.m.)  
 none

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:35 p.m.), deb

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of do-cal < 0 then show the subworkspace of inf\_b-p-3 and change the sobre icon-color of inf\_b-p-3 to yellow and conclude that the calibration of every do-probe is expired

Names  
 Juan (22 Feb 1999 9:35 p.m.), deb

Authors  
 Juan (22 Feb 1999 9:35 p.m.), deb

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:35 p.m.), deb

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of oxp-cal < 0 then show the subworkspace of inf\_b-p-2 and change the sobre icon-color of inf\_b-p-2 to yellow and conclude that the calibration of every oxp-probe is expired

Names  
 Juan (22 Feb 1999 9:35 p.m.), deb

Authors  
 Juan (22 Feb 1999 9:35 p.m.), deb

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:35 p.m.), deb

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of oxp-cal < 0 then show the subworkspace of inf\_b-p-2 and change the sobre icon-color of inf\_b-p-2 to yellow and conclude that the calibration of every oxp-probe is expired

Names  
 Juan (22 Feb 1999 9:35 p.m.), deb

Authors  
 Juan (22 Feb 1999 9:35 p.m.), deb

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:38 p.m.), deb

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of ph-cal < 0 then show the subworkspace of inf\_b-p-1 and conclude that the calibration of every ph-probe is expired

Names  
 Juan (22 Feb 1999 9:38 p.m.), deb

Authors  
 Juan (22 Feb 1999 9:38 p.m.), deb

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:34 p.m.)  
 none

Notes  
 Tracing and breakpoints  
 For any ph-probe P  
 If the time-to-calibration of ph-cal > 0 and the calibration of P is not ok then conclude that the calibration of P is ok

Names  
 Juan (22 Feb 1999 9:34 p.m.)  
 none

Authors  
 Juan (22 Feb 1999 9:34 p.m.)  
 none

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:36 p.m.)  
 none

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of oxp-cal > 0 and the calibration of P is not ok then conclude that the calibration of P is ok

Names  
 Juan (22 Feb 1999 9:36 p.m.)  
 none

Authors  
 Juan (22 Feb 1999 9:36 p.m.)  
 none

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:37 p.m.)  
 none

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of do-cal's 0' and the calibration of P is not ok then

Names  
 Juan (22 Feb 1999 9:37 p.m.)  
 none

Authors  
 Juan (22 Feb 1999 9:37 p.m.)  
 none

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (22 Feb 1999 9:37 p.m.)  
 none

Notes  
 Tracing and breakpoints  
 If the time-to-calibration of do-cal's 0' and the calibration of P is not ok then

Names  
 Juan (22 Feb 1999 9:37 p.m.)  
 none

Authors  
 Juan (22 Feb 1999 9:37 p.m.)  
 none

Categories  
 none

Depth first backward chaining precedence  
 1

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

control\_ox-anox\_r1 is false then  
 show the subworkspace of inf\_b-p-7 and change the sobre icon-color of inf\_b-p-7 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors Juan (21 Nov 1998 12:57 p.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if (the orp-state of reactor-state-2 is negative or the orp-state of reactor-state-2 is very-negative) and  
 the oxygen-level of reactor-state-2 is normal then  
 show the subworkspace of inf\_b-p-8 and change the sobre icon-color of inf\_b-p-8 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors Juan (21 Nov 1998 12:58 p.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if (the orp-state of reactor-state-3 is negative or the orp-state of reactor-state-3 is very-negative) and  
 the oxygen-level of reactor-state-3 is normal then  
 show the subworkspace of inf\_b-p-9 and change the sobre icon-color of inf\_b-p-9 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors deb (28 Jul 1998 8:36 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the orp-state of reactor-state-1 is positive and (the oxygen-level of reactor-state-1 is null) then show the subworkspace of inf\_b-p-10 and change the sobre icon-color of inf\_b-p-10 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors deb (28 Jul 1998 8:35 p.m.)  
 Names none  
 Tracing and breakpoints default

conclude that the calibration of p is ok  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors deb (24 Jul 1998 6:07 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the aeration-state of reactor-state-1 is too-high and the oxygen-level of reactor-state-1 is low then show the subworkspace of inf\_b-p-4 and change the sobre icon-color of inf\_b-p-4 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors deb (24 Jul 1998 6:04 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the aeration-state of reactor-state-2 is too-high and the oxygen-level of reactor-state-2 is low then show the subworkspace of inf\_b-p-5 and change the sobre icon-color of inf\_b-p-5 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors deb (24 Jul 1998 6:08 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the aeration-state of reactor-state-3 is too-high and the oxygen-level of reactor-state-3 is low then show the subworkspace of inf\_b-p-6 and change the sobre icon-color of inf\_b-p-6 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors Juan (8 Dec 1998 12:03 p.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if ((the orp-state of reactor-state-1 is negative or} the orp-state of reactor-state-1 is very-negative) and  
 the oxygen-level of reactor-state-1 is normal and

If the oyr-state of reactor-state-2 is positive and (the oxygen-level of reactor-state-2 is null) then show the subworkspace of inf\_b-p-11 and change the sobre icon-color of inf\_b-p-11 to yellow

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (28 Jul 1998 8:36 p.m.)  
 Names default  
 Tracing and breakpoints  
 If the oyr-state of reactor-state-3 is positive and (the oxygen-level of reactor-state-3 is null) then show the subworkspace of inf\_b-p-12 and change the sobre icon-color of inf\_b-p-12 to yellow

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (27 Jul 1998 1:02 p.m.)  
 Names default  
 Tracing and breakpoints  
 For any reactor-state RS  
 If the oyr-state of RS is positive and (the oxygen-level of RS is null or the oxygen-level of RS is low) then start information(' Check the DO probe of (the name of the reactor that is the owner-of-the-list-of-states RS). The OPR and the DO measures are contradictory.')

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors Juan (6 Nov 1998 4:06 p.m.)  
 Names default  
 Tracing and breakpoints  
 If the setpoint-pid-reactor3 of supervisor = 2 and the standard deviation of the o2 of reactor-3 during the last 1 hour std-dev-lim1-inf-o2 then start information(' The DO pid of reactor-3 has been enabled because the DO probe has a stable behaviour') and conclude that the setpoint-pid-reactor3 of supervisor = 1

Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors Juan (6 Nov 1998 4:05 p.m.)  
 Names

Name none  
 default  
 Tracing and breakpoints  
 If the setpoint-pid-reactor2 of supervisor = 2 and the standard deviation of the o2 of reactor-2 during the last 1 hour std-dev-lim1-inf-o2 then start information(' The DO pid of reactor-2 has been enabled because the DO probe has a stable behaviour') and conclude that the setpoint-pid-reactor2 of supervisor = 1

Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (22 Jun 1998 1:06 p.m.)  
 Names default  
 Tracing and breakpoints  
 If state-od is exc-es-O2 then invoke our-rules rules

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (22 Jun 1998 12:59 p.m.)  
 Names default  
 Tracing and breakpoints  
 If the average value of the o2 of any reactor during the last 5 minutes > 6 then conclude that state-od is exc-es-O2

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (22 Jun 1998 1:07 p.m.)  
 Names default  
 Tracing and breakpoints  
 If the our of any reactor R -> 1 and the our of R < 3 then conclude that state-our is normal

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories our-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (22 Jun 1998 1:07 p.m.)  
 Names

Tracing and breakpoints  
if the or of any reactor >= 3 then conclude that state-our is alt  
Scan interval none  
Focal classes none  
Focal objects none  
Categories our-rules  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 1:07 p.m.)

Names  
Tracing and breakpoints default  
if the or of any reactor < 1 then conclude that state-our is baix  
Scan interval none  
Focal classes none  
Focal objects none  
Categories our-rules  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 1:12 p.m.)

Names  
Tracing and breakpoints default  
if state-od is exc-es-02 and state-our is baix then show the subworkspace of inf20 and change the sobre icon-color of inf20 to yellow  
Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 1:10 p.m.)

Names  
Tracing and breakpoints default  
if state-od is exc-es-02 and state-our is normal then show the subworkspace of inf21 and change the sobre icon-color of inf21 to yellow  
Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 1:19 p.m.)

Names  
Tracing and breakpoints default  
if the or of any reactor < 0.0 then conclude that state-od is massabaix  
Scan interval none

Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 1:11 p.m.)

Names  
Tracing and breakpoints default  
if state-od is massabaix then invoke our-rules rules  
Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 1:23 p.m.)

Names  
Tracing and breakpoints default  
if state-od is massabaix and state-our is alt then show the subworkspace of inf19 and change the sobre icon-color of inf19 to yellow  
Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
BAD and some superior item is either DISABLED or not OK and note that for the general compilation the reference state-our is unknown  
deb (22 Jun 1998 1:24 p.m.)

Names  
Tracing and breakpoints default  
if state-od is massabaix and the state-our is not alt then conclude that state-od is aporinsuficiente  
Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but some superior item is either DISABLED or not OK.  
deb (22 Jun 1998 12:42 p.m.)

Names  
Tracing and breakpoints default  
if the sod of any bases is aporinsuficiente then invoke kia-rules rules  
Scan interval none  
Focal classes none  
Focal objects none

Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, not invocable via forward chaining, may cause data seeking, OK, but some superior item is either DISABLED or not OK.  
 deb (22 Jun 1998 12:43 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 If  $Kia < 0.4$  then conclude that nivel-kia is baxi  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, not invocable via forward chaining, may cause data seeking, OK, but some superior item is either DISABLED or not OK.  
 deb (22 Jun 1998 12:43 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 If  $Kia > 0.70$  then conclude that nivel-kia is alt  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, not invocable via forward chaining, may cause data seeking, OK, but some superior item is either DISABLED or not OK.  
 deb (22 Jun 1998 12:43 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 If  $Kia < 0.70$  and  $Kia > 0.4$  then conclude that nivel-kia is normal  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (22 Jun 1998 12:43 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 If the subworkspace of inf13 and change the sobre icon-color of inf13 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (22 Jun 1998 12:43 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 If nivel-kia is baxi then show the subworkspace of inf14 and change the sobre icon-color of inf14 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK (24 Jul 1998 1:22 p.m.)  
 deb (24 Jul 1998 1:22 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 For any reactor R  
 If the average value of the input signal value of the i-p\_transducer that is the-aeration-system-of R during the last 30 minutes > 17 then conclude that the aeration-state of the reactor-state that is the-list-of-states-of R is too-high  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK (24 Jul 1998 5:08 p.m.)  
 deb (24 Jul 1998 5:08 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 For any reactor R  
 If the average value of the input signal value of the i-p\_transducer that is the-aeration-system-of R during the last 30 minutes = 4.0 then conclude that the aeration-state of the reactor-state that is the-list-of-states-of R is none  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK (24 Jul 1998 5:14 p.m.)  
 deb (24 Jul 1998 5:14 p.m.)

Authors  
 Names none  
 Tracing and breakpoints default  
 If the average value of the o2 of R during the last 30 minutes > 0.1 and the average value of the o2 of R during the last 30 minutes <= 1.0 then conclude that the oxygen-level of the reactor-state that is the-list-of-states-of R is low  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none

Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but this INITIALLY rule is no longer active, having completed or timed out.  
 deb (24 Jul 1998 12:58 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 Initially conclude that ip1 is the-aeration-system-of reactor-1  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but this INITIALLY rule is no longer active, having completed or timed out.  
 deb (24 Jul 1998 1:07 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 Initially conclude that reactor-state-2 is the-list-of-states-of reactor-2  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but this INITIALLY rule is no longer active, having completed or timed out.  
 deb (24 Jul 1998 1:07 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 Initially conclude that reactor-state-3 is the-list-of-states-of reactor-3  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but this INITIALLY rule is no longer active, having completed or timed out.  
 deb (24 Jul 1998 1:08 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 Initially conclude that ip2 is the-aeration-system-of reactor-2  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 5:14 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 For any reactor R  
 if the average value of the o2 of R during the last 30 minutes > 5.5 then conclude that the oxygen-level of the reactor-state that is the-list-of-states-of R is high.  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 4:41 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 For any reactor R  
 if the average value of the orp of R during the last 30 minutes < -200 then conclude that the orp-state of the reactor-state that is the-list-of-states-of R is very-negative.  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 5:02 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 For any reactor R  
 if the average value of the ph of R during the last 30 minutes >= 7 and the average value of the ph of R during the last 30 minutes < 8 then conclude that the ph-state of the reactor-state that is the-list-of-states-of R is normal.  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but this INITIALLY rule is no longer active, having completed or timed out.  
 deb (24 Jul 1998 1:06 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints default  
 Initially conclude that reactor-state-1 is the-list-of-states-of reactor-1  
 Scan interval none  
 Focal classes none

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK, but this INITIALLY rule is no longer active,  
 having completed or timed out.  
 deb (24 Jul 1998 1:08 p.m.)

Authors Names default  
 Tracing and breakpoints initially conclude that ip3 is the-aeration-system-of reactor-3  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK (19 Jun 1998 1:33 p.m.), Juan  
 Names default  
 Tracing and breakpoints If the operation-problems of pilot is long-stop then conclude that the setpoint-o2-  
 reactor1 of supervisor = 1.0  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK (24 Jul 1998 5:03 p.m.)  
 Names default  
 Tracing and breakpoints for any reactor R  
 if the average value of the ph of R during the last 30 minutes >= 9 then  
 conclude that the ph-state of the reactor-state that is the-list-of-states-of R is high  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Names default  
 Tracing and breakpoints If the operation-problems of pilot is none and the pc-setpoint-external-recirculation-flow  
 of pc-process /s 100 then conclude that the setpoint-external-recirculation-flow of  
 supervisor = 100  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via

forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Names default  
 Tracing and breakpoints If the operation-problems of pilot is resumed-long-stop then conclude that the setpoint-  
 external-recirculation-flow of supervisor = 400  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK (24 Jul 1998 1:26 p.m.)  
 Names default  
 Tracing and breakpoints For any reactor R  
 If the average value of the input\_signal\_value of the i-p-transducer that is the-aeration-  
 system-of R during the last 30 minutes > 12.0 and  
 the average value of the input\_signal\_value of the i-p-transducer that is the-  
 aeration-system-of R during the last 30 minutes <= 17.0 then  
 conclude that the aeration-state of the reactor-state that is the-list-of-states-of R is  
 high  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK, but not active.  
 deb (21 Jul 1998 10:39 a.m.)

Names default  
 Tracing and breakpoints if the output signal value of pump-or > 600 then show the subworkspace of inf\_fs-cl and  
 change the sobre icon-color of inf\_fs-cl to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK, but not active.  
 deb (21 Jul 1998 10:40 a.m.)

Names default  
 Tracing and breakpoints If the outflow of box-1 > 450 then show the subworkspace of inf\_fs-c2 and change the sobre  
 icon-color of inf\_fs-c2 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via



forward chaining, may cause data seeking, may  
cause forward chaining

OK  
deb (20 Jul 1998 6:17 p.m.)

Names  
none  
default

Tracing and breakpoints  
if the cod of box-1 > 1.5 \* cod-inlet-normal then conclude that the high-load-problems of  
pilot is true

Scan interval  
none  
Focal classes  
none  
Focal objects  
none  
Categories  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
deb (21 Jul 1998 10:40 a.m.)

Names  
none  
default

Tracing and breakpoints  
if the high-load-problems of pilot is true then conclude that the setpoint-external-  
recirculation-flow of SUPERVISOR = the output\_signal\_value of PUMP-ER \* 1.2 and show  
the subworkspace of inf\_fs-01 and change the sobre icon-color of inf\_fs-01 to yellow  
{(coordinar con R fixed ratio)}

Scan interval  
none  
Focal classes  
none  
Focal objects  
none  
Categories  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
deb (20 Jul 1998 6:17 p.m.)

Names  
none  
default

Tracing and breakpoints  
if SIOEFICAXIA is true and INCREMENTALT is true then conclude that the high-load-  
problems of pilot is true

Scan interval  
none  
Focal classes  
none  
Focal objects  
none  
Categories  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
deb (30 Jul 1998 6:51 p.m.), juan

Names  
none  
default

Tracing and breakpoints  
if the average value of the input\_signal\_value of ip3 during the last 1 hour < 4.2 ma  
then show the subworkspace of inf\_fs-f1 and change the sobre icon-color of inf\_fs-f1 to  
yellow

Scan interval  
5 minutes  
Focal classes  
none  
Focal objects  
none  
Categories  
plant\_on\_rules  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
juan (28 Jan 1999 4:34 p.m.)

Authors  
none  
default

Tracing and breakpoints  
if the N-noi of FINAL-WASTE > 5  
then show the subworkspace of inf\_fs-f2 and change the sobre icon-color of inf\_fs-f2 to  
yellow

Scan interval  
none  
Focal classes  
none  
Focal objects  
none  
Categories  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
deb (24 Jul 1998 4:41 p.m.)

Names  
none  
default

Tracing and breakpoints  
for any reactor R  
if the average value of the orp of R during the last 30 minutes >= 0 then  
conclude that the orp-state of the reactor-state that is the list-of-states-of R is  
positive

Scan interval  
5 minutes  
Focal classes  
none  
Focal objects  
none  
Categories  
none  
Rule priority  
6  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
juan (20 Jan 1999 9:14 a.m.), deb

Names  
none  
default

Tracing and breakpoints  
if the aeration-state of reactor-state-1 is too-high and  
if the aeration-problems of pilot is none then  
show the subworkspace of inf\_e-a1 and change the sobre icon-color of inf\_e-a1 to yellow

Scan interval  
none  
Focal classes  
none  
Focal objects  
none  
Categories  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

Notes  
OK  
juan (20 Jan 1999 9:15 a.m.), deb

Names  
none  
default

Tracing and breakpoints  
if the aeration-state of reactor-state-2 is too-high and  
if the aeration-problems of pilot is none then  
show the subworkspace of inf\_e-a2 and change the sobre icon-color of inf\_e-a2 to yellow

Scan interval  
none  
Focal classes  
none  
Focal objects  
none  
Categories  
6  
Rule priority  
1  
Depth first backward chaining precedence  
1  
Timeout for rule completion  
use default

Options  
a rule  
invocable via backward chaining, invocable via  
forward chaining, may cause data seeking, may  
cause forward chaining

```

Notes
  OK
Names
  Juan (20 Jan 1999 9:16 a.m.), deb
Tracing and breakpoints
  default
  If the aeration-state of reactor-state-3 is too-high and
  the aeration-problems of pilot is none then
  show the subworkspace of inf_e-a3 and change the sobre icon-color of inf_e-a3 to yellow
Scan interval
  none
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  deb (20 Jul 1998 7:31 p.m.)
Tracing and breakpoints
  default
  If (the cod of final-waste / the cod of box-1) <= 0.2 and (the cod of final-waste/ the cod
  of box-1) >= 0.1 then conclude that cod-efficiency is normal
Scan interval
  1 day
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  deb (20 Jul 1998 7:31 p.m.)
Tracing and breakpoints
  default
  If (the cod of final-waste / the cod of box-1) < 0.1 then conclude that cod-efficiency is
  high
Scan interval
  1 day
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  deb (24 Jul 1998 4:19 p.m.)
Tracing and breakpoints
  default
  
```

```

for any reactor R
  If the average value of the o2 of R during the last 30 minutes < 0.1 then
  conclude that the oxygen-level of the reactor-state that is the-list-of-states-of R is
  null
Scan interval
  5 minutes
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  deb (24 Jul 1998 5:04 p.m.)
Tracing and breakpoints
  default
  For any reactor R
  If the average value of the ph of R during the last 30 minutes >= 6.4 and the average
  value of the ph of R during the last 30 minutes < 7 then
  conclude that the ph-state of the reactor-state that is the-list-of-states-of R is acid
Scan interval
  5 minutes
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  Juan (19 Jan 1999 7:57 p.m.)
Tracing and breakpoints
  default
  If CONTROL_RECYCLE is true and
  N-NOX-WASTE < N-NOX-LEVEL1 and
  DESIRED-INTERNAL-RECYCLING / = 1
  then conclude that DESIRED-INTERNAL-RECYCLING = 1
Scan interval
  none
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  Juan (20 Jan 1999 6:01 p.m.)
Tracing and breakpoints
  default
  If CONTROL_RECYCLE is true and
  N-NOX-WASTE > N-NOX-LEVEL1 and
  N-NOX-WASTE < N-NOX-LEVEL3 and
  DESIRED-INTERNAL-RECYCLING / = 2
  then conclude that DESIRED-INTERNAL-RECYCLING = 2
Scan interval
  none
Focal classes
  none
Focal objects
  none
Categories
  none
Rule priority
  6
Depth first backward chaining precedence
  1
Timeout for rule completion
  use default
Options
  a rule
  invocable via backward chaining, invocable via
  forward chaining, may cause data seeking, may
  cause forward chaining
Notes
  OK
Names
  Juan (24 Jul 1998 5:04 p.m.)
Tracing and breakpoints
  default
  
```

Notes OK  
 Authors Juan (19 Jan 1999 8:18 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_RECYCLE is true and  
 N-NOK-WASTE > N-NOK-LEVELS and  
 DESIRED-INTERNAL-RECYCLING /= 4  
 then conclude that DESIRED-INTERNAL-RECYCLING= 4  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors Juan (19 Feb 1999 9:32 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_RECYCLE is true and  
 DESIRED-INTERNAL-RECYCLING /= 2  
 then conclude that the SETPOINT-02-REACTOR3 of SUPERVISOR =3  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors Juan (22 Jan 1999 4:23 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_EXTERNAL\_RECYCLE is false and  
 DESIRED-EXTERNAL-RECYCLING /= 0.5  
 then conclude that DESIRED-EXTERNAL-RECYCLING = 0.5  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors deb (24 Jul 1998 1:26 p.m.)  
 Names none  
 Tracing and breakpoints default  
 for any reactor R  
 if the average value of the input\_signal\_value of the i-p\_transducer that is the-aeration-  
 system-of R during the last 30 minutes > 6.0 and  
 the average value of the input\_signal\_value of the i-p\_transducer that is the-  
 aeration-system-of R during the last 30 minutes <= 12.0 then  
 conclude that the aeration-state of the reactor-state that is the-list-of-states-of R is  
 normal  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors Juan (9 Feb 1999 8:51 a.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if the n-nhd of reactor-3 >= setpoint\_n-nhd\_max then conclude that ammonium-overload is  
 true  
 Scan interval none  
 Focal classes none

Notes OK  
 Authors Juan (19 Jan 1999 8:18 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_RECYCLE is true and  
 N-NOK-WASTE > N-NOK-LEVELS and  
 DESIRED-INTERNAL-RECYCLING /= 4  
 then conclude that DESIRED-INTERNAL-RECYCLING= 4  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors Juan (19 Feb 1999 9:32 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_RECYCLE is true and  
 DESIRED-INTERNAL-RECYCLING /= 2  
 then conclude that the SETPOINT-02-REACTOR3 of SUPERVISOR =3  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors Juan (12 Feb 1999 8:13 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_RECYCLE is true and  
 DESIRED-INTERNAL-RECYCLING = 4 and  
 the SETPOINT-02-REACTOR1 of SUPERVISOR /=1 or the SETPOINT-02-REACTOR3 of SUPERVISOR  
 has no current value)  
 then conclude that the SETPOINT-02-REACTOR3 of SUPERVISOR = 1  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK  
 Authors Juan (12 Feb 1999 8:13 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if CONTROL\_RECYCLE is true and  
 DESIRED-INTERNAL-RECYCLING = 4 and  
 the SETPOINT-02-REACTOR1 of SUPERVISOR /= 0 and  
 (the SETPOINT-02-REACTOR3 of SUPERVISOR /=3 or the SETPOINT-02-REACTOR3 of SUPERVISOR  
 has no current value)  
 then conclude that the SETPOINT-02-REACTOR3 of SUPERVISOR = 3  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6

Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISMISSED.  
 Authors Juan (9 Feb 1999 8:51 a.m.), deb

Names Tracing and breakpoints default  
 If the n-nh4 of reactor-3 < setpoint\_n-nh4\_max then conclude that ammonium-overload is true

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors deb (1 Aug 1998 1:23 p.m.)

Names Tracing and breakpoints default  
 If control\_ox-anox\_r1 is true and ammonium-overload is true and active-cycle is false then start cycle-reactor1()

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors Juan (15 Dec 1998 3:19 p.m.), deb

Names Tracing and breakpoints default  
 If control\_ox-anox\_r1 is true and ammonium-overload is false and active-cycle is false then conclude that the setpoint-02-reactor1 of supervisor = 30.0

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISMISSED.  
 Authors Juan (18 Nov 1998 11:12 a.m.)

Names Tracing and breakpoints default  
 If control\_ox-anox\_r1 is true (and ammonium-overload is true) and active-cycle is false then start cycle-reactor1()

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors Juan (9 Feb 1999 8:51 a.m.)

Names Tracing and breakpoints default  
 If the n-nh4 of final-waste >= setpoint\_n-nh4\_max then conclude that ammonium-overload is true

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors Juan (9 Feb 1999 8:51 a.m.)

Names Tracing and breakpoints default  
 If the n-nh4 of final-waste < setpoint\_n-nh4\_max then conclude that ammonium-overload is false

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors Juan (10 Feb 1999 8:44 a.m.), deb

Names Tracing and breakpoints default  
 If the n-nh4 of final-waste <= setpoint\_low\_n-nh4 then conclude that ammonium-lowload is true

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors Juan (26 Jan 1999 5:31 p.m.), deb

Names Tracing and breakpoints default  
 If the n-nh4 of final-waste > setpoint\_low\_n-nh4 then conclude that ammonium-lowload is false

Scan Interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK cause forward chaining  
 Authors Juan (17 Feb 1999 2:56 p.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if control\_ox-anox\_r2 is true and ammonium-load is true then  
 conclude that the setpoint-o2-reactor2 of supervisor = 0.0  
 and conclude that the setpoint-rpm-reactor2 of supervisor = 30.0  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors Juan (17 Feb 1999 2:58 p.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if control\_ox-anox\_r2 is true and ammonium-load is false then  
 conclude that the setpoint-o2-reactor2 of supervisor = 3.0  
 and conclude that the setpoint-rpm-reactor2 of supervisor = 50.0  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors Juan (17 Feb 1999 2:56 p.m.), deb  
 Names none  
 Tracing and breakpoints default  
 if control\_ox-anox\_r2 is false then conclude that the setpoint-o2-reactor2 of supervisor = 3.0 and conclude that the setpoint-rpm-reactor2 of supervisor = 50.0  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK  
 Authors deb (24 Jul 1998 1:26 p.m.)  
 Names none  
 Tracing and breakpoints default  
 for any reactor R  
 if the average value of the input\_signal\_value of the i-p\_transducer that is the-aeration-system-of R during the last 30 minutes > 4.0 and the average value of the input\_signal\_value of the i-p\_transducer that is the-aeration-system-of R during the last 30 minutes <= 6.0 then conclude that the aeration-state of the reactor-state that is the-list-of-states-of R is low  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but some superior item is either DISABLED or not OK.  
 Authors deb (21 Jul 1998 11:11 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if traditional-sludge-age > sludge-age-minim then conclude that possible-nitrif is true and show the subworkspace of inf\_m-ani and change the sobre icon-color of inf\_m-ani to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but some superior item is either DISABLED or not OK.  
 Authors deb (21 Jul 1998 11:03 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if possible-nitrif is true and o-d is extra then conclude that the nitrification-problems of pilot is true  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but some superior item is either DISABLED or not OK.  
 Authors deb (21 Jul 1998 11:15 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if the n-nh4 of final-waste < the n-nh4 of box-1 then conclude that the nitrification-problems of pilot is true  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but some superior item is either DISABLED or not OK.  
 Authors deb (21 Jul 1998 11:03 a.m.)  
 Names none  
 Tracing and breakpoints default  
 if the n-no3 of reactor-3 > 15 then conclude that the nitrification-problems of pilot is true  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (21 Jul 1998 11:17 a.m.)  
 use default

Names  
 none

Notes  
 for any reactor R  
 if (the average value of the o2 of R between 2 hours ago and 1 hour ago - the average value of the o2 of R during the last 1 hour) > 1  
 then show the subworkspace of inf\_m-an2 and change the sobre icon-color of inf\_m-an2 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (21 Jul 1998 11:04 a.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 if (1.2 \* the OUP of any baases ) < KIA \* (OXIGEN-SATURACION - the oxygen-dissolt of the baases) and the comporta-oberta of the baases is true then conclude that o-d is extra

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 1

Depth first backward chaining precedence  
 6

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (21 Jul 1998 11:04 a.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 if (the n-no2 of reactor-3 > 15  
 then conclude that the nitrification-problems of pilot is true

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (21 Jul 1998 11:18 a.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 for any reactor R  
 if (the average value of the ph of R between 2 hours ago and 1 hour ago - the average value of the ph of R during the last 1 hour) > 1  
 then show the subworkspace of inf\_m-an3 and change the sobre icon-color of inf\_m-an3 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (21 Jul 1998 10:48 a.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 if the rising-problems of pilot is true then show the subworkspace of inf\_m-r1 and change the sobre icon-color of inf\_m-r1 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 5:14 p.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 for any reactor R  
 if the average value of the o2 of R during the last 30 minutes > 1.0 and the average value of the o2 of R during the last 30 minutes <= 5.5 then  
 conclude that the oxygen-level of the reactor-state that is the list-of-states-of R is normal

Scan interval  
 5 minutes

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (21 Jul 1998 10:51 a.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 if escomes is true and temom-foaming is true then conclude that the foaming-problems of pilot is true

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence  
 1

Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (21 Jul 1998 10:51 a.m.)  
 use default

Names  
 none

Notes  
 Tracing and breakpoints  
 if the abundance of nocardia-app >= 3 and o-d is alt then conclude that the foaming-problems of pilot is true

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (24 Jul 1998 5:04 p.m.)

Names  
none  
default

Tracing and breakpoints  
for any reactor R  
if the average value of the ph of R during the last 30 minutes < 6.4 then conclude that the ph-state of the reactor-state that is the-list-of-states-of R is too-acid

Scan interval 5 minutes  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (21 Jul 1998 8:07 p.m.)

Names  
none  
default

Tracing and breakpoints  
if the svi of plant-sludge >150 and the value of the svi of plant-sludge as of 1 day ago >150 then conclude that possible-bulking is true and show the subspace of inf\_m-bl and change the sobre icon-color of inf\_m-bl to yellow and change the decis icon-color of j-8 to green and change the only icon-color of lj8 to red

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (22 Jun 1998 4:02 p.m.)

Names  
none  
default

Tracing and breakpoints  
if the svi of plant-sludge <=150 then conclude that possible-bulking is false

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (21 Jul 1998 8:08 p.m.)

Names  
none  
default

Tracing and breakpoints  
if possible-bulking is true and the bulking-problems of pilot is non-filament then hide the subspace of inf\_m-bl and change the sobre icon-color of inf\_m-bl to transparent and show the subspace of inf\_m-b2 and change the sobre icon-color of inf\_m-b2 to yellow

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (21 Jul 1998 8:08 p.m.)

Names  
none  
default

Tracing and breakpoints  
if possible-bulking is true and the bulking-problems of pilot is non-filament then hide the subspace of inf\_m-bl and change the sobre icon-color of inf\_m-bl to transparent and show the subspace of inf\_m-b2 and change the sobre icon-color of inf\_m-b2 to yellow

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (21 Jul 1998 10:57 a.m.)

Names  
none  
default

Tracing and breakpoints  
if the foaming-problems of pilot is true then show the subspace of inf\_m-f2 and change the sobre icon-color of inf\_m-f2 to yellow

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (21 Jul 1998 10:56 a.m.)

Names  
none  
default

Tracing and breakpoints  
if fuel then conclude that temor-foaming is true and show the subspace of inf\_m-f1 and change the sobre icon-color of inf\_m-f1 to yellow

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (21 Jul 1998 10:58 a.m.)

Names  
none  
default

Tracing and breakpoints  
if f-m < 0.005 then conclude that temor-foaming is true and change the decis icon-color of j-2 to green and change the only icon-color of lj2 to red

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (24 Jul 1998 4:41 p.m.)

Names  
none  
default

Tracing and breakpoints  
for any reactor R  
if the average value of the orp of R during the last 30 minutes > -200 and the average value of the orp of R during the last 30 minutes < 0 then conclude that the orp-state of the reactor-state that is the-list-of-states-of R is negative

Scan interval 5 minutes  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options  
a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
OK  
deb (24 Jul 1998 4:41 p.m.)

Names  
none  
default

Tracing and breakpoints  
for any reactor R  
if the average value of the orp of R during the last 30 minutes > -200 and the average value of the orp of R during the last 30 minutes < 0 then conclude that the orp-state of the reactor-state that is the-list-of-states-of R is negative

Scan interval 5 minutes  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options 2 rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (21 Jun 1998 8:11 p.m.)

Names none

Tracing and breakpoints default

If possible-bulking is true and the bulking-problems of pilot is filament then hide the  
 subworkspace of inf\_m-b1 and change the sobre icon-color of inf\_m-b1 to transparent  
 and show the subworkspace of inf\_m-b3 and change the sobre icon-color of inf\_m-b3 to  
 yellow

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:14 p.m.)

Names none

Tracing and breakpoints none

If sulfur is yes then invoke sulfur rules

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:14 p.m.)

Names none

Tracing and breakpoints default

If sulfur is no then invoke sulfur-no rules

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:28 p.m.)

Names default

Tracing and breakpoints none

If causa-bulking-fill is dilema3 then conclude that causa-bulking-fill is sulfurs

Scan interval none

Focal classes none

Focal objects none

Categories sulfur

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK

Authors deb (22 Jun 1998 4:28 p.m.)

Names none

Tracing and breakpoints default

If causa-bulking-fill is dilema2 then conclude that causa-bulking-fill is sulfurs

Scan interval none

Focal classes none

Focal objects none

Categories sulfur

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:29 p.m.)

Names none

Tracing and breakpoints none

If causa-bulking-fill is dilema3 then conclude that causa-bulking-fill is defici-gracia-  
 nutrientes

Scan interval none

Focal classes none

Focal objects none

Categories sulfur-no

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:29 p.m.)

Names none

Tracing and breakpoints default

If causa-bulking-fill is dilema2 then conclude that causa-bulking-fill is f\_m-0-def-nutr.

Scan interval none

Focal classes none

Focal objects none

Categories sulfur-no

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:34 p.m.)

Names default

Tracing and breakpoints none

If f\_m < 0.01 then conclude that possible-bulking is true and change the decis icon-color  
 of j-9 to green and change the only icon-color of j-9 to red

Scan interval none

Focal classes none

Categories sulfur

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes OK deb (22 Jun 1998 4:34 p.m.)

Names default

Tracing and breakpoints none

If f\_m > 0.5 then conclude that possible-bulking is true and change the decis icon-color of  
 j-10 to green and change the only icon-color of j-10 to red

Scan interval none

Focal classes none



forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 4:42 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if f-m > 0.01 or f-m <= 0.5 then conclude that f-m-level is normal  
 none  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 4:43 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if possible-bulking is true then change the decis icon-color of j-13 to green  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (17 Jul 1998 1:11 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if the abundance of any type-1701 > 2 then conclude that causa-bulking-fill is OD  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (17 Jul 1998 1:13 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if the abundance of any sphaerotilus-natans > 2 then conclude that causa-bulking-fill is OD  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (17 Jul 1998 1:17 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if the abundance of any microthrix-parvicella > 2 then conclude that causa-bulking-fill is F M  
 Scan interval  
 none

none  
 none  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 4:39 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if f-m < 0.01 then conclude that f-m-level is low  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but DISABLED.  
 deb (21 Jul 1998 8:19 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if f-m-level is normal then show the subworkspace of inf\_m-b4 and change the sobre icon-color of inf\_m-b4 to yellow  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 4:40 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if causa-bulking-fill is f-m then invoke feed rules  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 4:41 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if f-m > 0.5 then conclude that f-m-level is high  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jun 1998 4:41 p.m.)  
 none  
 Names  
 Tracing and breakpoints  
 if f-m > 0.5 then conclude that f-m-level is high  
 default  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (17 Jul 1998 1:18 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any type-0581 > 2 then conclude that causa-bulking-fill is F\_M  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (17 Jul 1998 1:27 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any type-0041 > 2 then conclude that causa-bulking-fill is F\_M  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (17 Jul 1998 1:29 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any type-0961 > 2 then conclude that causa-bulking-fill is F\_M  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (21 Jul 1998 8:51 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any haliscomonobacter-hydraxis > 2 then conclude that causa-bulking-fill is dilema1 and hide the subworkspace of inf\_m-b4 and change the sobre icon-color of inf\_m-b4 to transparent and show the subworkspace of inf\_m-b5 and change the sobre icon-color of inf\_m-b5 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (21 Jul 1998 8:55 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any type-0092 > 2 then conclude that causa-bulking-fill is dilema1 and show the subworkspace of inf\_m-b7 and change the sobre icon-color of inf\_m-b7 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (21 Jul 1998 8:53 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any type-021n > 2 then conclude that causa-bulking-fill is dilema2 and show the subworkspace of inf\_m-b6 and change the sobre icon-color of inf\_m-b6 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (21 Jul 1998 8:59 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any thlothrrix-spp > 2 then conclude that causa-bulking-fill is dilema3 and show the subworkspace of inf\_m-b8 and change the sobre icon-color of inf\_m-b8 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (21 Jul 1998 9:01 p.m.)  
 Names none  
 Tracing and breakpoints default  
 If the abundance of any beggiatoa-spp > 2 then conclude that causa-bulking-fill is sulfurea and show the subworkspace of inf\_m-b9 and change the sobre icon-color of inf\_m-b9 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

forward chaining, may cause data seeking, may cause forward chaining  
 OK deb (30 Jul 1998 6:50 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 if the average value of the input\_signal\_value of ip2 during the last 1 hour < 4.2 ma then show the subspace of inf\_fs-f1 and change the sobre icon-color of inf\_fs-f1 to yellow  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories plant\_on\_rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:35 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is false then conclude that the tipus of microorg is sphaerotilus-natans  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:35 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is vertaderes-curtes then conclude that the tipus of microorg is nocordia-app  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:36 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is vertaderes-llargues then conclude that the tipus of microorg is funghi  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:36 p.m.)

Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is gliding and the granula-sulfur of carac-microorg is si then conclude that the tipus of microorg is beggiatoa-app  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:36 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is gliding and the granula-sulfur of carac-microorg is no then conclude that the tipus of microorg is flexibacter  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:36 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granula-sulfur of carac-microorg is si and the gram of carac-microorg is positiiu then conclude that the tipus of microorg is type-0914  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:36 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granula-sulfur of carac-microorg is si and the gram of carac-microorg is negatiu then conclude that the tipus of microorg is thiothrix-app  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 Notes OK, but not active.  
 Authors deb (22 Jul 1998 6:37 p.m.)  
 Names none

Tracing and breakpoints default  
if the ramifications of carac-microorg is ausencia and the mobilizat-filaments of carac-microorg is no and the granula-sulfur of carac-microorg is no and the crosswalls of carac-microorg is ben-visible and the neisser of carac-microorg is positiu then conclude that the tipus of microorg is neorocoida-linticola

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options

a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but not active.  
deb (22 Jul 1998 6:37 p.m.)

Notes

Authors

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Tracing and breakpoints

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Tracing and breakpoints

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Tracing and breakpoints default  
if the ramifications of carac-microorg is ausencia and the mobilizat-filaments of carac-microorg is no and the granula-sulfur of carac-microorg is no and the crosswalls of carac-microorg is ben-visible and the neisser of carac-microorg is negativ and the diam-cel.jula of carac-microorg is de-1-a-2-2 and the gram of carac-microorg is positiu then conclude that the tipus of microorg is type-041

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options

a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but not active.  
deb (22 Jul 1998 6:37 p.m.)

Notes

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints default  
if the ramifications of carac-microorg is ausencia and the mobilizat-filaments of carac-microorg is no and the granula-sulfur of carac-microorg is no and the crosswalls of carac-microorg is ben-visible and the neisser of carac-microorg is negativ and the diam-cel.jula of carac-microorg is de-1-a-2-2 and the gram of carac-microorg is negativ and the forma of carac-microorg is esferica-clindridica then conclude that the tipus of microorg is type-1863

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options

a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but not active.  
deb (22 Jul 1998 6:37 p.m.)

Notes

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

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Authors

Names

Tracing and breakpoints

Names

Tracing and breakpoints default  
if the ramifications of carac-microorg is ausencia and the mobilizat-filaments of carac-microorg is no and the granula-sulfur of carac-microorg is no and the crosswalls of carac-microorg is ben-visible and the neisser of carac-microorg is negativ and the diam-cel.jula of carac-microorg is mes-petit-0-1 and the capsula of carac-microorg is no and the forma of carac-microorg is quadrada then conclude that the tipus of microorg is type-0803

Scan interval none  
Focal classes none  
Focal objects none  
Categories none  
Rule priority 6  
Depth first backward chaining precedence 1  
Timeout for rule completion use default

Options

a rule  
invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
OK, but not active.  
deb (22 Jul 1998 6:38 p.m.)

Notes

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Tracing and breakpoints

Names

Authors

Names

Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 6:38 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granul-sulfur of carac-microorg is no and the crosswalls of carac-microorg is ben-visible and the neisser of carac-microorg is negatiu and the diam-cel.lula of carac-microorg is de-1-a-2.2 and the gram of carac-microorg is negatiu and the filam-transparentes of carac-microorg is no then conclude that the tipus of microorg is type-021N

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 6:38 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granul-sulfur of carac-microorg is no and the crosswalls of carac-microorg is ben-visible and the neisser of carac-microorg is negatiu and the diam-cel.lula of carac-microorg is mes-gran-2.5 then conclude that the tipus of microorg is cianoficies

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 6:38 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granul-sulfur of carac-microorg is no and the crosswalls of carac-microorg is poc-o-gens-visible and the estat-filaments of carac-microorg is entrotllats and the gram of carac-microorg is negatiu then conclude that the tipus of microorg is type-0581

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 6:38 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granul-sulfur of carac-microorg is no and the crosswalls of carac-microorg is poc-o-gens-visible and the estat-filaments of carac-microorg is entrotllats and the gram of carac-microorg is positiu and the neisser of carac-microorg is positiu then conclude that the tipus of microorg is microbrix-parvicella

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 6:39 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granul-sulfur of carac-microorg is no and the crosswalls of carac-microorg is poc-o-gens-visible and the estat-filaments of carac-microorg is estirats and the neisser of carac-microorg is positiu then conclude that the tipus of microorg is type-0092

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 6:40 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if the ramifications of carac-microorg is ausencia and the mobilitat-filaments of carac-microorg is no and the granul-sulfur of carac-microorg is no and the crosswalls of carac-microorg is poc-o-gens-visible and the estat-filaments of carac-microorg is negatiu and the neisser of carac-microorg is negatiu then conclude that the tipus of microorg is haliscomenobacter-hydrosais

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (22 Jul 1998 5:39 p.m.)

Notes  
 Authors none  
 Names none

Tracing and breakpoints  
 if temor-bulking has no current value then change the decis icon-color of j-13 to white

Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors deb (20 Jul 1998 6:04 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the inflow of anaerobic > 1000 then start set-deact(1, alerta-cabal )  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jul 1998 7:52 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if temoz-bulking is false and the tips of microorg is type-1701 or the tips of microorg is sphaerotilus-natans or the tips of microorg is haliscomenobacter-hydroxsis or the tips of microorg is microthrix-parvicella or the tips of microorg is type-0591 or the tips of microorg is type-0961 or the tips of microorg is beggiatoa-app or the tips of microorg is type-0092 or the tips of microorg is type-021n or the tips of microorg is thiothrix-app or the tips of microorg is type-0041 or the tips of microorg is type-0803 then show the subworkspace of inf\_m-mil and change the sobre icon-color of inf\_m-mil to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jul 1998 7:41 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the tips of microorg is not falta-informact-p then start update-microorg(1)  
 Scan interval 1 week  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (20 Jul 1998 3:22 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the abundance of fungi has a value and the abundance of fungi >= 2 and ph-influent > 6, 8 and the nitrification-problems of pilot is false then show the subworkspace of inf\_b-ph-3 and change the sobre icon-color of inf\_b-ph-3 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Authors deb (17 Jul 1998 4:03 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if f\_m > 0.005 then change the decis icon-color of j-2 to white and change the only icon-color of j3 to black  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (19 Jun 1998 1:33 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the current value of fuel is true then change the decis icon-color of j-1 to green and change the only icon-color of j1 to red  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jul 1998 5:36 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if fuel has no current value then change the decis icon-color of j-1 to white and change if the only icon-color of j1 to black  
 Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (22 Jul 1998 5:37 p.m.)  
 Names none  
 Tracing and breakpoints default  
 if the decis icon-color of j-1 is green or the decis icon-color of j-2 is green then change the decis icon-color of j-3 to green and change the only icon-color of j3 to red  
 Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb-(22 Jul 1998 - 5:36 p.m.)  
 Names none  
 Tracing and breakpoints default

if the decis icon-color of j-1 is white and the decis icon-color of j-2 is white then change the decis icon-color of j-3 to white and change the only icon-color of lj3 to black

Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (19 Jun 1998 1:33 p.m.)  
 Names default  
 Tracing and breakpoints if the current value of the decis icon-color of j-4 to green and change the only icon-color of lj4 to red  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (22 Jul 1998 5:37 p.m.)  
 Names default  
 Tracing and breakpoints if escumes has no current value then change the decis icon-color of j-4 to white and change the only icon-color of lj4 to black  
 Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (22 Jul 1998 5:36 p.m.)  
 Names default  
 Tracing and breakpoints if the decis icon-color of j-3 is green and the decis icon-color of j-4 is green then change the decis icon-color of j-7 to red and change the only icon-color of lj7a to red  
 Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (22 Jul 1998 5:36 p.m.)  
 Names default  
 Tracing and breakpoints if the decis icon-color of j-3 is white or the decis icon-color of j-4 is white then change the only icon-color of lj7a to black  
 Scan interval 2 minutes

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (19 Jun 1998 1:33 p.m.)  
 Names default  
 Tracing and breakpoints if the current value of the tipus of microorg is nocasdia then change the decis icon-color of j-5 to green and change the only icon-color of lj5 to red  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (22 Jul 1998 5:37 p.m.)  
 Names default  
 Tracing and breakpoints if the tipus of microorg has no current value then change the decis icon-color of j-5 to white and change the only icon-color of lj5 to black  
 Scan interval 2 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (19 Jun 1998 1:33 p.m.)  
 Names default  
 Tracing and breakpoints if o-d is alt then change the decis icon-color of j-6 to green and change the only icon-color of lj6 to red  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK deb (19 Jun 1998 1:33 p.m.)  
 Names default  
 Tracing and breakpoints if o-d is normal or o-d is baix then change the decis icon-color of j-6 to white and change the only icon-color of lj6 to black  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1

Timeout for rule completion

use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK deb (22 Jul 1998 5:37 p.m.)

Names

default

Tracing and breakpoints if the decis icon-color of j-5 is green and the decis icon-color of j-6 is green then change the decis icon-color of j-7 to red and change the only icon-color of j-7b to red

Scan interval

2 minutes

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK deb (22 Jul 1998 5:38 p.m.)

Names

default

Tracing and breakpoints if the decis icon-color of j-5 is white or the decis icon-color of j-6 is white then scan the only icon-color of j-7b to black

Scan interval

2 minutes

Focal classes

none

Focal objects

none

Categories

none

Rule priority

1

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK deb (22 Jul 1998 5:38 p.m.)

Names

default

Tracing and breakpoints if the only icon-color of j-7a is black and the only icon-color of j-7b is black then change the decis icon-color of j-7 to white

Scan interval

2 minutes

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK deb (20 Jul 1998 3:20 p.m.)

Names

default

Tracing and breakpoints if ph-influent < (7.5 - marge-ph-inf) then show the subworkspace of inf\_p-ph-1 and if ph-bajo, recommendation)

Scan interval

none

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule

Options

invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK, but some superior item is either DISABLED or not OK.

Authors

deb (23 Jul 1998 1:08 p.m.)

Names

default

Tracing and breakpoints if al-cada-fang < 0.3 then show the subworkspace of inf10 and change the sobre icon-color of inf10 to yellow

Scan interval

none

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK, but some superior item is either DISABLED or not OK.

Authors

deb (28 Jul 1998 7:46 p.m.)

Names

default

Tracing and breakpoints If al-cada-fang > 0.6 (and the biomasa-rec of any clarificador < (the inflow-plantas of claveguera + the inflow-fangs of arq) - the biomasa of any basesa) / the inflow-fangs of arq) and the comorta-obierta of the BMSB is true) then show the subworkspace of inf45 and change the sobre icon-color of inf45 to yellow

Scan interval

none

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK, but some superior item is either DISABLED or not OK.

Authors

deb (23 Jul 1998 1:08 p.m.)

Names

default

Tracing and breakpoints If (the current value of the recycle-flow of SRTTR-1 as of 5 minutes ago) > 0 and (the current value of al-cada-fang - the value of al-cada-fang as of 5 seconds ago) > 0 then conclude that temo-bolking is true and change the only icon-color of j-11a to red

Scan interval

none

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Timeout for rule completion

1 use default

Options

a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes

OK, but some superior item is either DISABLED or not OK.

Authors

deb (17 Jul 1998 2:04 p.m.)

Names

default

Tracing and breakpoints If al-cada-fang > (0.25 \* j.5) then show the subworkspace of inf11 and change the sobre icon-color of inf11 to yellow

Scan interval

none

Focal classes

none

Focal objects

none

Categories

none

Rule priority

6

Depth first backward chaining precedence

1 use default

Options

a rule



Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK deb (22 Jun 1998 3:31 p.m.)

Authors none

Names default

Tracing and breakpoints if desired-mert has a value and (traditional-sludge-age >= 1.05 \* desired-mert or traditional-sludge-age <= 0.95 \* desired-mert) then conclude that state-waste is incorrect

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK Juan (18 Feb 1999 10:55 a.m.)

Authors none

Names default

Tracing and breakpoints if CONTROL EXTERNAL RECYCLE is true and (OUR-2-MEAN > OUR-2-LEVEL1 or AMMONIUM-OVERLOAD is true) and ACTIVE-CYCLE-ER is false and DESIRED-EXTERNAL-RECYCLING /= 0.75 then start CYCLE-EXTERNAL-RECYCLE()

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but some superior item is either DISABLED or not OK. deb (23 Jul 1998 1:27 p.m.)

Authors none

Names default

Tracing and breakpoints if sboxa is false and COD-EFFICIENCY is normal then conclude that snormal is true

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but some superior item is either DISABLED or not OK. deb (17 Jul 1998 4:27 p.m.)

Authors none

Names default

Tracing and breakpoints if sxalta is true and state-waste is correct then show the subworkspace of inf17 and change the sobre icon-color of inf17 to yellow

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but some superior item is either DISABLED or not OK. deb (17 Jul 1998 2:04 p.m.)

Authors none

Names default

Tracing and breakpoints if (the current value of the recycle-flow of SERTLER-1 - the value of the recycle-flow of SERTLER-1 as of 5 minutes ago) > 0 then change the decis icon-color of j-11 to green and change the only icon-color of lj11 to red

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but some superior item is either DISABLED or not OK. deb (17 Jul 1998 2:04 p.m.)

Authors none

Names default

Tracing and breakpoints if (the current value of al-cada-fang - the value of al-cada-fang as of 5 minutes ago) > 0 then change the decis icon-color of j-12 to green and change the only icon-color of lj12 to red

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK deb (20 Jul 1998 3:21 p.m.)

Authors none

Names default

Tracing and breakpoints if ph-influent > (7.5 \* marge-ph-inf) then show the subworkspace of inf\_b-ph-2 and change the sobre icon-color of inf\_b-ph-2 to yellow

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK deb (22 Jun 1998 3:30 p.m.)

Authors none

Names default

Tracing and breakpoints if desired-mert has a value and (traditional-sludge-age < 1.05 \* desired-mert or traditional-sludge-age > 0.95 \* desired-mert) then conclude that state-waste is correct

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (17 Jul 1998 4:28 p.m.)

Names  
 none  
 default

Tracing and breakpoints  
 If state-waste is true and xalta is true then conclude that SXRTRA and invoke balan-c rules

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (17 Jul 1998 4:28 p.m.)

Names  
 none  
 default

Tracing and breakpoints  
 If sxbalxa is true and state-waste is incorrect then show the subworkspace of inf16 and change the sobre icon-color of inf16 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (17 Jul 1998 4:28 p.m.)

Names  
 none  
 default

Tracing and breakpoints  
 if sxbalxa is true then invoke balan-c rules

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (17 Jul 1998 4:29 p.m.)

Names  
 none  
 default

Tracing and breakpoints  
 If state-waste is correct and SXRTRA is true then show the subworkspace of inf15 and change the sobre icon-color of inf15 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 deb (17 Jul 1998 4:29 p.m.)

Names  
 none  
 default

Tracing and breakpoints  
 If state-waste is incorrect and SXRTRA is true then show the subworkspace of inf16 and change the sobre icon-color of inf16 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but some superior item is either DISABLED or not OK.  
 Juan (5 Oct 1998 7:23 p.m.), deb

Names  
 none  
 default

Tracing and breakpoints  
 If desired-mcrt has a value and (the total-mcrt of mcrt >= 1.05 \* desired-mcrt or the total-mcrt of mcrt <= 0.95 \* desired-mcrt) then start update-mcrt()

Scan interval  
 10 minutes

Focal classes  
 none

Focal objects  
 none

Categories  
 mcrt-rules

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK (21 Jul 1998 10:38 a.m.)

Names  
 none  
 default

Tracing and breakpoints  
 If traditional-ajudge-age has a value and traditional-ajudge-age < 3 then show the subworkspace of inf\_sm-a1 and change the sobre icon-color of inf\_sm-a1 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK (27 Jul 1998 1:25 p.m.)

Names  
 none  
 default

Tracing and breakpoints  
 If the ph of reactor-1 /= the ph of reactor-3 (+- 2) then show the subworkspace of inf\_b-p-18 and change the sobre icon-color of inf\_b-p-18 to yellow

Scan interval  
 none

Focal classes  
 none

Focal objects  
 none

Categories  
 none

Rule priority  
 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options  
 Invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 deb (19 Jun 1998 1:33 p.m.), Juan  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is resumed or the state of pilot is program-initiated then conclude that the on-off of pilot = 1  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 deb (19 Jun 1998 1:33 p.m.), Juan  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is not resumed and the state of pilot is not program-initiated then conclude that the on-off of pilot = 0  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:03 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is resumed then start information("The pilot plant has been resumed")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:04 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is sun-resumed then start information("The pilot plant has been resumed by G2")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:05 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is program-initiated then start information("The pilot plant has been initiated")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

initiated")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:05 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is pump-on-alarm then start information("The pilot plant has been stopped because of pump-on alarm")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:06 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is pump-off-alarm then start information("The pilot plant has been stopped because of pump-off alarm")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:06 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is level-1-alarm then start information("The pilot plant has been stopped because of level-1-alarm")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:06 p.m.), deb  
 Authors  
 Names  
 Tracing and breakpoints  
 if the state of pilot is level-2-alarm then start information("The pilot plant has been stopped because of level-2-alarm")  
 Scan interval  
 Focal classes  
 Focal objects  
 Categories  
 Rule priority  
 Depth first backward chaining precedence 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:07 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the state of pilot is plant-leak-alarm then start information("The pilot plant has been stopped because of leak alarm")

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:07 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the state of pilot is manual-stop then start information("The pilot plant has been stopped manually")

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:08 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the state of pilot is G2-stop then start information("The pilot plant has been stopped from G2")

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:13 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the state of pilot is not resumed and the state of pilot is not program-initiated then conclude that the operation-problems of pilot is stop and start information("Plant stop!!!!")

[si no se ha funcionado, problema: stop]

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:13 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the operation-problems of pilot is stop and ( the state of pilot is resumed or the state of pilot is program-initiated) and the collection time of the operation-problems of pilot >= (the current time - 2 hours) then conclude that the operation-problems of pilot is none and start information("null problem")

[si se reinicia y ha estado parada menos de dos horas: sin problema]

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:13 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the operation-problems of pilot is stop and the collection time of the operation-problems of pilot < (the current time - 2 hours) then conclude that the operation-problems of pilot is long-stop and start information("Long stop!!!!")

[si lleva parada m-ba de dos horas: long-stop]

Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:18 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the operation-problems of pilot is long-stop and (the state of pilot is program-initiated or the state of pilot is resumed) then conclude that the operation-problems of pilot is resumed-long-stop and start information("Resumed Long Stop!!!!")

[si estaba long-stop y se reinicia: resumed-long-stop]

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Juan (21 Nov 1998 1:18 p.m.), deb

Names  
 OK

Tracing and breakpoints  
 default

If the operation-problems of pilot is resumed-long-stop and the collection time of the operation-problems of pilot < (the current time - 2 hours) then conclude that the operation-problems of pilot is none and start information("null problem from long-stop")

and the aeration-state of RS is too-high then conclude that the aeration-problems of pilot is compressor-failure and start information("Compressor Failure !!!")

Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors Juan (21 Nov 1998 1:39 p.m.)  
 Names none  
 default  
 Tracing and breakpoints for any reactor-state RS if the oxygen-level of RS is normal then conclude that the aeration-problems of pilot is none  
 Scan interval 10 minutes  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK, but DISABLED.  
 Authors Juan (7 Dec 1998 4:39 p.m.)  
 Names none  
 default  
 Tracing and breakpoints if the operation-problems of pilot is stop then conclude that CONTROL\_OX-ANOX\_R1 is false  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories operation-problems-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors deb (20 Jul 1998 3:22 p.m.)  
 Names none  
 default  
 Tracing and breakpoints if the ph of any reactor <= 4 then show the subspace of inf\_b-ph-4 and change the sobre icon-color of inf\_b-ph-4 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan  
 Names none  
 default  
 Tracing and breakpoints unconditionally start update-g2-setspoints()  
 Scan interval 5 minutes  
 Focal classes none  
 Focal objects none

(si est-b resumed-long-stop por m-bs de dos horas, vuelve a situaci-ph normal: none)

Scan interval 5 minutes  
 Focal classes none  
 Focal objects none  
 Categories operation-problems-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors Juan (24 Feb 1999 2:32 p.m.), deb  
 Names none  
 default  
 Tracing and breakpoints if the operation-problems of pilot is stop and the state of pilot is not manual-stop then start alarma() across gsi-gateway and start information("Jump!!!")  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories operation-problems-rules  
 Rule priority 10  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors deb (20 Jul 1998 5:39 p.m.)  
 Names none  
 default  
 Tracing and breakpoints if the state of pilot is plant-leak-alarm then conclude that the state of every leak-detector is on  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories Plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors deb (20 Jul 1998 5:44 p.m.)  
 Names none  
 default  
 Tracing and breakpoints if the on-off of pilot =1 then conclude that the state of every leak-detector is off  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 OK  
 Authors Juan (20 Jan 1999 9:27 a.m.)  
 Names none  
 default  
 Tracing and breakpoints for any reactor-state RS if (the aeration-problems of pilot is not compressor-failure) and (the state of pilot is pump-off-alarm or the state of pilot is level-1-alarm or the (the oxygen-level of RS is null or the oxygen-level of RS is low)

Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISABLED, and some superior item is either DISABLED or not OK.

Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names

Tracing and breakpoints default  
 if the current day of the month = 26 and the current hour = 8 then conclude that the setpoint-internal-recirculation-flow of supervisor = 0.0 and inform the operator that "He cambado las condiciones de RI"

Scan interval 15 minutes

Focal classes none

Focal objects none

Categories none

Rule priority 5

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISABLED, and some superior item is either DISABLED or not OK.

Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names

Tracing and breakpoints default  
 if the current hour = 16 and the current minute = 22 then conclude that the setpoint-inflow of supervisor = 300.0 and conclude that the setpoint-c-dosification-timer of supervisor = 8 and conclude that the setpoint-n-dosification-timer of supervisor = 8

Scan interval 1 minute

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISABLED, and some superior item is either DISABLED or not OK.

Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names

Tracing and breakpoints default  
 if the current day of the month = 27 and the current minute = 0 then conclude that the setpoint-planta-on-off of supervisor = 10

Scan interval 1 minute

Focal classes none

Focal objects none

Categories none

Rule priority 5

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISABLED, and some superior item is either DISABLED or not OK.

Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names

Tracing and breakpoints default  
 if the current day of the month = 27 and the current hour = 17 and the current minute = 0 then conclude that the setpoint-planta-on-off of supervisor = 11

Scan interval 1 minute

Focal classes none

Focal objects none  
 Categories none  
 Rule priority 5  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK (24 Jul 1998 10:19 a.m.)

Authors

Names

Tracing and breakpoints default  
 if the g91-interface-status of g91-gateway = -2 then start restart-bridge()

Scan interval 5 minutes

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but DISABLED, 1:33 p.m.)

Authors deb (19 Jun 1998 1:33 p.m.)

Names

Tracing and breakpoints default  
 whenever the g91-interface-status of g91-gateway receives a value and when the g91-interface-status of g91-gateway = -2 then start restart-bridge()

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK (22 Jun 1998 11:52 a.m.)

Authors deb (22 Jun 1998 11:52 a.m.)

Names

Tracing and breakpoints default  
 if the ph of R > 7.9 or the ph of R < 7 then conclude that the ph-problems of pilot is si

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Options a rule  
 invokeable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK, but not active.

Authors deb (17 Jul 1998 7:55 p.m.)

Names

Tracing and breakpoints default  
 if a1-c-pic-zinc has a current value then conclude that the zn of box-1 = 2.52 + random (10) \* 0.25 - random (10) \* 0.25 + a1-c-pic-zinc

Scan interval none

Focal classes none

Focal objects none

Categories none

Rule priority 6

Depth first backward chaining precedence 1

Timeout for rule completion use default

Notes cause forward chaining  
 OK deb (22 Jun 1998 11:52 a.m.)  
 Authors none  
 Names default  
 Tracing and breakpoints  
 for any reactor R  
 if the ph of R <= 7.9 and the ph of R := 7 then conclude that the ph-problems of pilot  
 is no  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 8:48 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if the estat-cillis of any cillis is erts then conclude that the toxic-problems of pilot is  
 xoc-brusc  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 8:49 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if SXBAIXA is false and cod-efficiency is baix then conclude that SIEFICBAIXA is true  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (19 Jun 1998 1:33 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if SIEFICBAIXA is true and QENT is normal then conclude that SIOEFICBAIXA is true  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:08 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if SIOEFICBAIXA is true and INCREMENTALIT is false and state-od is normal then conclude

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 7:56 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if the zn of box-1 >= 15 then conclude that the toxic-problems of pilot is xoc\_brusc  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 7:56 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if the zn of box-1 as of 1 day ago > 8 and the value  
 of the zn of box-1 as of 2 days ago <= 8 then conclude that efecte-zinc = 0.8  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 7:56 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if the zn of box-1 > 8 and the value of the zn of box-1 as of 1 day ago > 8 and the value  
 of the zn of box-1 as of 2 days ago > 8 and the value of the zn of box-1 as of 3 days  
 ago <= 8 then conclude that efecte-zinc = 0.65  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 7:56 p.m.)  
 Names none  
 default  
 Tracing and breakpoints  
 if the zn of box-1 > 8 and the value of the zn of box-1 as of 1 day ago > 8 and the value  
 of the zn of box-1 as of 2 day ago > 8 and the value of the zn of box-1 as of 3 days  
 ago > 8 then conclude that efecte-zinc = 0.5  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

that the toxic-problems of pilot is de-mica-en-mica  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 8:50 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 if app\_vort is alta then conclude that the toxic-problems of pilot is xoc-brusc  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:04 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 if the zn of box-1 > 8 and the value of the zn of box-1 as of 1 day ago > 8 and the value of the zn of box-1 as of 2 days ago <= 8 then conclude that dies = 1 and show the subworkspace of inf25 and change the sobre icon-color of inf25 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:05 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 if the zn of box-1 > 8 and the value of the zn of box-1 as of 1 day ago > 8 and the value of the zn of box-1 as of 2 days ago > 8 and the value of the zn of box-1 as of 3 days ago <= 8 then conclude that dies = 2 and show the subworkspace of inf25 and change the sobre icon-color of inf25 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:10 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 if the zn of box-1 > 20 then (clavengara becomes perillosa-en-zinc-per-b-1 then conclude that cabal-purga = the value of cabal-purga as of 2 seconds ago \* 1.1 and) show the subworkspace of inf23 and change the sobre icon-color of inf23 to yellow  
 Scan interval none

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:13 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 for any cllis if (t-signa >= 5 and) the estat-cllis of the cllis is erts and the vlns of the cllis is no then (conclude that the toxics of situaci-p is xoc-gros and conclude that cabal-purga = the value of cabal-purga as of 2 seconds ago \* 1.1 and) show the subworkspace of inf24 and change the sobre icon-color of inf24 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:02 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 for any cllis if the estat-cllis of the cllis is b-e and the vlns of the cllis is s-1 then conclude that the toxic-problems of pilot is no  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (17 Jul 1998 9:06 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 if the zn of box-1 > 8 and the value of the zn of box-1 as of 1 day ago > 8 and the value of the zn of box-1 as of 2 days ago > 8 and the value of the zn of box-1 as of 3 days ago > 8 then conclude that dies = 3 and show the subworkspace of inf25 and change the sobre icon-color of inf25 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but not active.  
 deb (19 Jun 1998 1:33 p.m.)  
 none

Names  
 Authors  
 Tracing and breakpoints  
 unconditionally conclude that temor-bulking is true  
 Scan interval none  
 Focal classes none  
 Focal objects none



Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 whenever any gsi-measure that is an attribute of pc-analyzers receives a value then start update-analyzers() and inform the operator that "invoking update-analyzers"  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 unconditionally update every gsi-measure  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 for any analyser  
 if the collection time of the output\_signal\_value of the analyser > (the current time - 2 hours)  
 then conclude that the on-line-state of the analyser is on-line  
 Scan interval  
 20 minutes  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if the collection time of the output\_signal\_value of the analyser < the current time - 2 hours  
 then conclude that the on-line-state of the analyser is off-line  
 Scan interval  
 20 minutes  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Categories  
 sulfurs  
 6  
 Rule priority  
 1  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 deb (22 Jun 1998 11:50 a.m.)  
 default

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 for any reactor R  
 if the ph of R < 6.5 then conclude that temom-bulking is true  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if the ph of reactor-1 /= the ph of reactor-2 (+- 2) then show the subworkspace of inf\_b-p-16 and change the sobre icon-color of inf\_b-p-16 to yellow  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if the ph of reactor-2 /= the ph of reactor-3 (+- 2) then show the subworkspace of inf\_b-p-17 and change the sobre icon-color of inf\_b-p-17 to yellow  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if [the input\_signal\_value of flojet-1 \* the maximum-flow of flojet-1 / 100] < (the output\_signal\_value of flojet-1 \* 0.95) then start update-t-flojet\_on()  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 Juan (1 Sep 1998 5:27 p.m.), deb  
 default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

forward chaining, may cause data seeking, may cause forward chaining  
 OK, but this INITIALLY rule is no longer active, having completed or timed out  
 deb (19 Jun 1998 1:41 p.m.), Juan

Names  
 Tracing and breakpoints default  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 Whenever any gsi-measure that is an attribute of pc-process receives a value then inform the operator that "Ahora"  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 Whenever any gsi-measure Kk that is an attribute of pc-analyzers fails to receive a value then conclude that Kk = -1  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK, but DISABLED.  
 deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints none  
 Scan interval default  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 3:41 p.m.)

Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 If the output\_signal\_value of f1ojet-1 \* the maximum-flow of f1ojet-1 / 100 > (the output\_signal\_value of f1ojet-1 \* 1.3) then start update-t\_f1ojet-on()

Names  
 Tracing and breakpoints default  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (1 Dec 1998 6:48 p.m.), Juan

Names  
 Tracing and breakpoints  
 If desired-external-recycling has a value and ( (the output\_signal\_value of pump-er / the outflow of box-1 < 0.95 \* desired-external-recycling) )  
 or (the output\_signal\_value of pump-er / the outflow of box-1 > 1.05 \* desired-external-recycling) )  
 and (the setpoint-external-recirculation-flow of supervisor has no value  
 recycling \* the outflow of box-1)  
 then conclude that the setpoint-external-recirculation-flow of supervisor = desired-external-recycling \* the outflow of box-1 and show the subspace of inf\_p-r2 and change the sobre icon-color of inf\_p-r2 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 3:33 p.m.)

Names  
 Tracing and breakpoints  
 If the output\_signal\_value of pump-ir > 1500 then show the subspace of inf\_e-p1 and change the sobre icon-color of inf\_e-p1 to yellow  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 deb (24 Jul 1998 3:33 p.m.)

Names  
 Tracing and breakpoints  
 If the output\_signal\_value of f1ojet-1 \* the maximum-flow of f1ojet-1 / 100 > (the output\_signal\_value of f1ojet-1 \* 1.3) then start update-t\_f1ojet-on()

Names  
 Tracing and breakpoints  
 If the output\_signal\_value of f1ojet-1 \* the maximum-flow of f1ojet-1 / 100 > (the output\_signal\_value of f1ojet-1 \* 1.3) then start update-t\_f1ojet-on()

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 If desired-internal-recycling has a value and  
 ( the output\_signal\_value of pump-ir / the outflow of box-1 < 0.95 \* desired-internal-  
 recycling) }  
 or (the output\_signal\_value of pump-ir / the outflow of box-1 > 1.05 \* desired-internal-  
 recycling) }  
 and (the setpoint-internal-recirculation-flow of supervisor has no value  
 or the setpoint-internal-recirculation-flow of supervisor / = desired-internal-  
 recycling \* the outflow of box-1)  
 then conclude that: the setpoint-internal-recirculation-flow of supervisor = desired-  
 internal-recycling \* the outflow of box-1 and  
 show the subworkspace of inf\_p-r1 and  
 change the sobre icon-color of inf\_p-r1 to yellow

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if (the operation-problems of pilot is none or the operation-problems of pilot is resumed-  
 long-stop) and  
 control\_ox-anox\_r1 is false and  
 the pc-setpoint-o2-reactor1 of pc-process / = 0 then  
 conclude that the setpoint-o2-reactor1 of supervisor=0

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant\_rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 whenever the pc-pic-input-value of every process-computer receives a value then start  
 extract\_bits( the pc-pic-input-value of every process-computer , the input\_signal\_values  
 of every pic)

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints

a rule  
 not invocable via backward chaining, not invocable  
 via forward chaining, may cause data seeking,  
 may cause forward chaining

OK  
 deb (19 Jun 1998 1:33 p.m.), juan

whenever the pc-pic-output-value of any process-computer receives a value then start  
 pumps\_state(the output\_signal\_values of plc-plant )

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 whenever the pc-pic-output-value of any process-computer receives a value then start  
 extract\_bits( the pc-pic-output-value of every process-computer , the  
 output\_signal\_values of every plc)

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 whenever dia-variables receives a value then start registro\_analisis\_dia( the current time -  
 the current value of dia-variables \* 1 day )

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if the current hour = 0 then start registro\_analisis\_dia (the current time - 1 day)  
 30 minutes

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints  
 if the pc-planta-on-off of pc-process = -1 then conclude that the state of pilot is  
 resumed

Scan interval none  
 Focal classes none  
 Focal objects none

Options  
 Notes  
 Authors  
 Names  
 Tracing and breakpoints

a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

OK  
 deb (19 Jun 1998 1:33 p.m.), juan

Categories  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = 0 then conclude that the state of pilot is G2-resumed

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = -3 then conclude that the state of pilot is program-initiated

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = 0 then conclude that the state of pilot is pump-on-alarm

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Options  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = 1 then conclude that the state of pilot is pump-off-alarm

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = 2 then conclude that the state of pilot is level-1-alarm

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = 3 then conclude that the state of pilot is level-2-alarm

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors deb (19 Jun 1998 1:33 p.m.), Juan

Names  
 Tracing and breakpoints default  
 If the pc-planta-on-off of pc-process = 4 then conclude that the state of pilot is plant-leak-alarm

Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories plant-state-rules  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes  
 Authors Juan (12 Feb 1999 6:09 p.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 if the pc-setpoint-02-reactor1 of pc-process = 0 and  
 the pc-our-1 of pc-process /= 0  
 then conclude that the pc-our-1 of pc-process = 0  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK  
 Juan (12 Feb 1999 6:10 p.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 if the pc-setpoint-02-reactor2 of pc-process = 0 and  
 the pc-our-2 of pc-process /= 0  
 then conclude that the pc-our-2 of pc-process = 0  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK  
 Juan (12 Feb 1999 6:11 p.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 if the pc-setpoint-02-reactor3 of pc-process = 0 and  
 the pc-our-3 of pc-process /= 0  
 then conclude that the pc-our-3 of pc-process = 0  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK  
 Juan (13 Nov 1998 7:32 p.m.), deb

Names  
 none  
 Tracing and breakpoints  
 default  
 unconditionally start g2-snapshot (\*ktemporal.kb\*,true,true) after 10 minutes  
 Scan interval  
 2 hours  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK  
 Juan (19 Jun 1998 1:33 p.m.), juan

Names  
 none  
 Tracing and breakpoints  
 default  
 if show-4-20ma is true then change the stripe-color of every 4-20ma to magenta  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

stop  
 none  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 plant-state-rules  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK  
 deb (19 Jun 1998 1:33 p.m.), juan

Names  
 none  
 Tracing and breakpoints  
 default  
 if the pc-planta-on-off of pc-process = 6 then conclude that the state of pilot is G2-stop  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 plant-state-rules  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK, but this INITIALLY rule is no longer active,  
 having completed or timed out.  
 Juan (25 Nov 1998 8:38 a.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 initially conclude that OUTFLOW-VC is the-sim-parameter-of the outflow of VC  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK, but this INITIALLY rule is no longer active,  
 having completed or timed out.  
 Juan (25 Nov 1998 8:38 a.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 initially conclude that OUTFLOW-VN is the-sim-parameter-of the outflow of VN  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK, but this INITIALLY rule is no longer active,  
 having completed or timed out.  
 Juan (25 Nov 1998 8:38 a.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 initially conclude that OUTFLOW-VC is the-sim-parameter-of the outflow of VC  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK, but this INITIALLY rule is no longer active,  
 having completed or timed out.  
 Juan (25 Nov 1998 8:38 a.m.)

Names  
 none  
 Tracing and breakpoints  
 default  
 initially conclude that OUTFLOW-VN is the-sim-parameter-of the outflow of VN  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining

Notes  
 OK  
 deb (19 Jun 1998 1:33 p.m.), juan

Names  
 none  
 Tracing and breakpoints  
 default  
 if show-4-20ma is true then change the stripe-color of every 4-20ma to magenta  
 Scan interval  
 none  
 Focal classes  
 none  
 Focal objects  
 none  
 Categories  
 none  
 Rule priority  
 6  
 Depth first backward chaining precedence  
 1  
 Timeout for rule completion  
 use default

Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Authors Names  
 Tracing and breakpoints default  
 if show-4-20ma is false then change the stripe-color of every 4-20ma to the background-color of the subworkspace of process  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Authors Names  
 Tracing and breakpoints default  
 if show-on-off is true then change the stripe-color of every on-off to blue and change the stripe-color of every 24v to coral  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Authors Names  
 Tracing and breakpoints default  
 if show-on-off is false then change the stripe-color of every on-off to the background-color of the subworkspace of process  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 not invocable via backward chaining, not invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 Juan (9 Nov 1998 5:47 p.m.), deb

Authors Names  
 Tracing and breakpoints default  
 whenever any gsf:setpoint GS receives a value then set GS to GS and start write-log("New setpoint [the localization of GS] [the function of GS] [the parametro of GS]: [the current value of GS] ")  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes forward chaining, may cause data seeking, may cause forward chaining  
 OK  
 Juan (25 Nov 1998 9:04 a.m.)  
 default

Authors Names  
 Tracing and breakpoints 5 minutes  
 if any parameter p upon this workspace unconditionally conclude that p = the value of the variable that is the-real-variable-of p  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (20 Jul 1998 5:35 p.m.)

Authors Names  
 Tracing and breakpoints default  
 if dynamic-licons is true then start move-leak-detector()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Authors Names  
 Tracing and breakpoints default  
 if dynamic-licons is true then start move-phoscon()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Authors Names  
 Tracing and breakpoints default  
 if dynamic-licons is true then start move-freq-converter()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options a rule  
 invocable via backward chaining, invocable via forward chaining, may cause data seeking, may cause forward chaining

Notes OK  
 deb (19 Jun 1998 1:33 p.m.), Juan

Authors Names  
 Tracing and breakpoints default  
 if dynamic-licons is true then start move-stirrer()  
 Scan interval none

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default  
 Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 Notes OK  
 Authors deb (19 Jun 1998 1:33 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 if dynamic-icons is true then start move-waste()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default  
 Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 Notes OK  
 Authors deb (19 Jun 1998 1:33 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 unconditionally start alarma() across gai-gateway  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default  
 Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 Notes OK  
 Authors deb (19 Jun 1998 1:33 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 if dynamic-icons is true then start move-peristaltic-pump()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default  
 Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 Notes OK  
 Authors deb (19 Jun 1998 1:33 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 if dynamic-icons is true then start move-variable-dosing-pump()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default  
 Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 Notes OK  
 Authors deb (19 Jun 1998 1:33 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 if dynamic-icons is true then start move-fixed-dosing-pump()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default  
 Options  
 a rule  
 invocable via backward chaining, invocable via  
 forward chaining, may cause data seeking, may  
 cause forward chaining  
 Notes OK  
 Authors deb (19 Jun 1998 1:33 p.m.), juan  
 Names none  
 Tracing and breakpoints default  
 if dynamic-icons is true then start move-reactor()  
 Scan interval none  
 Focal classes none  
 Focal objects none  
 Categories none  
 Rule priority 6  
 Depth first backward chaining precedence 1  
 Timeout for rule completion use default

Options  
 a rule  
 invocable via backward chaining, invocable via