```
11-May-93 13:18:13 {DSK}<usr>local>lde>loops>users>rules>RULES-ROOT.;2
  File created:
    changes to:
                              (VARS RULES-ROOTCOMS)
previous date:
                             11-May-93 12:42:46 {DSK}<usr>local>lde>loops>users>rules>RULES-ROOT.;1
   Read Table:
                             XCL
       Package:
                             INTERLISP
             Format:
                                XCCS
; Copyright (c) 1993 by Venue. All rights reserved.
(RPAQQ RULES-ROOTCOMS
               ((DECLARE\: DONTCOPY (PROP MAKEFILE-ENVIRONMENT RULES-ROOT))
                 (COMS
                                                                                                                                        ; Override a few basic fns in Loops
                              (METHODS | Class.CopyMethod | Class.DefRSM | Class.EditMethod | Class.PPMethod | ))
                                                                                                                                        ; Patch the class brower menus to add DefRSM
                 (COMS
                              (FNS | AddDefRSMtoClassBrowser | ) )
                 (COMS
                                                                                                                                        ; Load the Rules files
                              (FILES (FROM VALUEOF LOOPSUSERSDIRECTORY)
                                            LOOPSBACKWARDS LOOPSMIXIN)
                                            (FROM VALUEOF LOOPSUSERSRULESDIRECTORY)
                                            RULES RULESP RULESC RULESD RULESTTY))
                 (P ( | AddDefRSMtoClassBrowser | ))
                 (PROP MAKEFILE-ENVIRONMENT RULES-ROOT)))
(DECLARE\: DONTCOPY)
;; Override a few basic fns in Loops
(DEFINEQ
(|MoveMethod|
                                                                                                                                            |files|)
    (LAMBDA (|oldClassName| |newClassName| |selector| |newSelector|
                                                                                                                                          Edited 17-Jun-88 17:21 by raf
;;; Move a method from oldClassName to newClassName, renaming function if appropriate
         (SETQ | oldClassName | (| GoodClassName |
                                                                                         oldClassName NIL T))
         (OR |newClassName | (SETQ |newClassName | (SETQ |newClassName |
                                                                                            |oldClassName|))
                                                                                          newClassName| NIL T))
        (SETQ | newClassName | (|GoodclassName | newClassName | newClassNa
                                                                                                                                (|localFn| (|FindLocalMethod| (|GetClassRec| |oldClassName|) | |selector|)))
          ;; Punt now for null moves
                     (|if| (AND (EQ |oldClass | EQ |selector)
                                                                        |newClass|)
                                                                        |newSelector|))
                             |then| (RETURN NIL))
                      (COND
                            ((NULL |localFn|)
                              (|printout| T |selector| " not found in " |oldClassName|)
                            (RETURN NIL))
((STRPOS |oldClassName| |localFn|)
                              (OR (SETQ |oldDef | (GETDEF |localFn | 'METHOD-FNS))

(ERROR "No defintion found for " |localFn |)); Remember to delete fn def Dont use DELDEF since it bitches.
                              (SETQ | delFnFlg | T)
                              (COND
                                    ((|ValueFound| (SETQ |oldRuleSetName| (|GetMethod| |oldClass| |selector| '|RuleSet|))
                                                                                                                                        ; Treat specially those that are implemented by RuleSets.
                                       (LET* ((|oldRuleSet| (|GetObjectRec
                                                                                                                     |oldRuleSetName|))
                                                      (|newRuleSetName| (|MethName
                                                                                                                     (|ClassName| |newClass|)
                                                                                                          |selector|))
                                                   (|newRuleSet| (_ |oldRuleSet| |CopyRules| |newRuleSetName| |newClass|)))
(SETQ |newLocalFn| (|DefRSM| |newClass| |selector| |newRuleSetName|))))
                                                                                                                                        |selector| |newRuleSetName|))))
                                                                                                                                         Define the method
                                    (T
                                                                                                                                                                   |sel |args| |decls| |formsd| doc| |quals| |method-type|)
                                           (SETQ | newLocalFn | (EVAL (CL:MULTIPLE-VALUE-BIND ( | cname |
                                                                                                         (PARSE-METHOD-BODY |oldDef|)
                                                                                                    (PACK-METHOD-BODY | newClassName | | newSelector | | args | | decls | | formsd | | doc | | quals | | method-type | ))))))) ector | | localFn | ))
                     (T (|AddMethod| |newClass| |newSelector| |localFn|)))
(|for| |prop| |in| (DREMOVE '|RuleSet| (_ |oldClass| |ListAttribute| '|Method| |selector|))
|do| (|PutMethodOnly| |newClass| |newSelector| (|GetMethodOnly| |oldClass| |selector| |prop|)
                                                    |prop|))
                     (|DeleteMethod| oldClass | selector | delFnFlg|)
(RETURN (OR |newLocalFn| |localFn|)))))
( | \ BatchMethodDefs | )
```

```
(METH | Class | | CopyMethod | (| selector | | newClass | | newSelector | )
        "Copy method from self to newClass. newSelector defaults to selector"
        (|category| (|Class|)))
(METH | Class | DefRSM | (|selector |)
        .
"Installs a RuleSet as a method in the class. If ruleSetName is NIL, then DefRSM creates a RuleSet,
        invokes the RuleSet editor, compiles the RuleSet, and installs it as a method in the class. Also
        initializes the workspace instance variable."
        (|category| (|Class|)))
(METH | Class | EditMethod | (| selector | commands | )
        "Called by Class.EditMethod. Finds the function associated with selector in class, and calls editor on
        (|category| (|Class|)))
(METH |Class| |PPMethod| (|selector|)
"Prettyprint the function which implements selector in this class."
        (|category| (|Class|)))
(|Method| ((|Class||CopyMethod|) |self| |selector| |newClass| |newSelector|)
                                                                                          : RBGMartin 13-Oct-87 17:10
    "Copy method from self to newClass. newSelector defaults to selector"
    (OR |newSelector| (SETQ |newSelector| |selector|))
(LET (|def| |newFn| |oldRuleSetName| (|myMethName| (|FindLocalMethod| (|GetClassRec| |self|)
                                                                                     |selector|)))
           (COND
               ((NULL | myMethName |)
                 (COND
          ((SETQ | myMethName | (| FetchMethod | | self | | selector | ))

((SETQ | myMethName | (| FetchMethod | | self | | | selector | ))

(HELPCHECK | selector | " is not local for " | self | "

To copy anyway, type OK"))

(T (ERROR | selector | (CONCAT "is not a selector for " | self | )))))))

(OR (|type? | | class | | newClass | )

(SETQ | newClass | (OR (| GetClassRec | | newClass | )

(AND (HELPCHECK | newClass | " is not a class. Type OK to use oldClass: ")
                                                     |self|))))
           (COND
               ((|ValueFound| (SETQ |oldRuleSetName | (|GetMethod | |self | |selector | '|RuleSet |)))
                                                                    ; Treat specially those that are implemented by RuleSets.
                 (LET* ((|oldRuleSet| (|GetObjectRec|
                          ( newRuleSetName ( MethName
                                                                   (|ClassName| newClass|)
                                                             |selector|))
                         (|newRuleSet| (_ |oldRuleSet| |CopyRules| |newRuleSetName| |newClass|)))
(SETQ |newFn| (|DefRSM| |newClass| |selector| |newRuleSetName|))))
                                                                                          ; Define the method
               (T
                   (OR (SETQ |def| (GETDEF |myMethName| 'METHOD-FNS)) (ERROR |myMethName| " is not a defined function"))
                   (SETQ | newFn | (EVAL (CL:MULTIPLE-VALUE-BIND (| cname | | sel | | args | | decls | | forms | | doc | | quals |
                                                                                           |type|)
                                                     (PARSE-METHOD-BODY | def | )
           ; Copy all the properties
               |dol
                    (|PutMethod| |newClass| |newSelector| (|GetMethod| |self| |selector| |prop|)
                              prop ))
           newFn|))
                                                                                         ; dgb: 9-NOV-83 11:20
(|Method| ((|Class| |DefRSM|) |self| |selector|)
    "Installs a RuleSet as a method in the class. If ruleSetName is NIL, then DefRSM creates a RuleSet, invokes
    the RuleSet editor, compiles the RuleSet, and installs it as a method in the class. Also initializes the
    workspace instance variable."
(|DefRSM| |self| |selector|))
(|Method| ((|Class| |EditMethod|) | self| | selector| |commands|) ; RBGMartin 17-Feb-87 16:34

"Called by Class.EditMethod. Finds the function associated with selector in class, and calls editor on it"

(LET* ((|selector| (OR |selector| (_ |self| |PickSelector| (CONCAT "EditMethod: " (|ClassName| |self|)))))

(|method| (AND |selector| (|FindLocalMethod| |self| |selector|))))
            (|if| (NULL |selector|)
                 |then| NIL
               |elseif| (NULL |method|)
                                ((|allSelectors| (_ |self| |ListAttribute!| '|Selectors|)))
(|if| (MEMB |selector| |allSelectors|)
                 |then| (LET
                                      then
                                                                                          ; The method is an inherited one
                                              (|if| (EQ 'Y (ASKUSER NIL NIL (CONCAT |selector| " is not a local method of "
                                                                                              |self| ". Should I make it local for editing? ")))
                                                  ealling?")))

[then| (SETQ | method | (_ | self | | MakeLocalMethod | | selector |)))

((|containingForm | (|if | (AND (BOUNDP ' | \SendForm |))

(EQ | \Selector | '| EditMethod |))

[then| | \SendForm |)

(|correctedSelector | (|\SendForm |))
                                   |else| (LET*
                                                    (|correctedSelector| (
                                                                                    \\LoopsFixSpell
```

```
|correctedSelector|
                                                |then| (SETQ |selector | |correctedSelector |)
                                                       (SETQ | method | (OR (|FindLocalMethod | | self | | correctedSelector | )
                                                                             (_ |self | MakeLocalMethod | correctedSelector |
                                                                                )))))))))
r| '|RuleSet|))))
           (LET ((|ruleSet| (AND |method| (|GetMethod| |self| |selector|
                 (|if| (NULL |method|)
                     |then| NIL
                  |elseif| (|ValueFound| |ruleSet|)
                     |then|
                                                                            ; Here if the method is implemented by a RuleSet.
                               (|GetObjectRec| |ruleSet|)
|EditRules|)
                  |elseif| (NULL (|CheckMethodForm| |self| |selector| |method|))
|then| (PROMPTPRINT |method| " is not a known function.")
                   |else| (|if| (GETDEF |method | 'METHOD-FNS NIL '(NOERROR NOCOPY NODWIM))
                           |then| (EDITDEF |method | 'METHOD-FNS NIL |commands |) |else| (PROMPTPRINT "Can't find source for " |method |
                                 NIL)))))
(|Method| ((|Class| |PPMethod|) |self| |selector|)
                                                                            : smL 9-Apr-87 19:18
::: Prettyprint the function which implements selector in this class.
;;;
   (LET ((|selector| (OR |selector| (_ |self| |PickSelector| (CONCAT "PPMethod: " (|ClassName| |self|))))))
         (COND
             (|selector| (LET ((|fn| (_ |self| |FetchMethod| |selector|))
                                 (|ìf|
                                     fn
                                      |then| (RESETFORM (OUTPUT |outFile|)
                                                    (WITH.PP.OUTPUT |outFile| (TERPRI |outFile|)
(PRINTDEF (GETDEF |fn| 'METHOD-FNS))))
                                   |else| (PRINTOUT |outFile| "No method for selector " |selector | " in " |self | T)))))
( | \ UnbatchMethodDefs | )
;; Patch the class brower menus to add DefRSM
(DEFINEQ
(|AddDefRSMtoClassBrowser|
                                                                            ; Edited 16-Dec-87 12:23 by jrb:
  (LAMBDA NIL
     (PROG ((MIDDLEITEMS (|GetClassValue| ($ |ClassBrowser|)
                                     ' | MiddleButtonItems | ) ) )
            (|PutClassValue| ($ |ClassBrowser|)
                     |MiddleButtonItems|
                    (|for| N |in| MIDDLEITEMS |collect| (COND
                                                           ((EQUAL (CAR N)
                                                                    "Add (AddMethod)")
                                                            (LET ((SUBITEMFORM (CADR N)))
                                                                  (LIST (CAR N)
                                                                         (LIST (CAR SUBITEMFORM)
                                                                                (LSUBST '(("AddMethod" | AddNewMethod|
                                                                                                    "Add a new method to the
                                                                                                    class")
                                                                                            ("DefRSM" | DefRSM | "Add a new
                                                                                                    ruleset method to the
                                                                                                    class"))
                                                                                         '("AddMethod" | AddNewMethod | "Add a
                                                                                                 new method to the class")
                                                                                         (CADADR N))
                                                                                (CADDR SUBITEMFORM))
                                                                         (CADDR N))))
                                                           (T N))))
            ( | ClearAllCaches | ) ) ) )
;; Load the Rules files
(FILESLOAD (FROM VALUEOF LOOPSUSERSDIRECTORY)
        LOOPSBACKWARDS LOOPSMIXIN)
(FILESLOAD (FROM VALUEOF LOOPSUSERSRULESDIRECTORY)
        RULES RULESP RULESC RULESD RULESTTY)
(|AddDefRSMtoClassBrowser|)
(PUTPROPS RULES-ROOT COPYRIGHT ("Venue" 1993))
```


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