


```

(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
  it"
  (category (Class)))

(METH Class PPMMethod (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))
            (HELPCHECK selector " is not local for " self "
              To copy anyway, type OK"))
          (T (ERROR selector (CONCAT "is not a selector for " self)
            (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 oldRuleSetName))
                  (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)
                      (PACK-METHOD-BODY (ClassName newClass)
                        newSelector args decls forms doc quals type)))
                    (for prop in (DREMOVE 'RuleSet (_ self ListAttribute 'Method selector))
                      do
                        ; Copy all the properties
                        (PutMethodCheck newClass newSelector (GetMethod self selector prop)
                          prop))
                    newFn))
              ]])
            (Method ((Class DefRSM)
              self selector) ; dgb: 9-NOV-83 11:20
              "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)
        then (LET [(allSelectors (_ self ListAttribute! 'Selectors)
          (if (MEMB selector allSelectors)
            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? ")))
              then (SETQ method (_ self MakeLocalMethod selector)))
            else (LET* [(containingForm (if (AND (BOUNDP '\SendForm)
              (EQ \Obj self)

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                                (EQ \Selector 'EditMethod))
                                then \SendForm))
                                (\LoopsFixSpell
                                selector allSelectors (CONS '_ containingForm)
                                (if (EQ 'QUOTE (CAR (CADDR containingForm)))
                                    then (CDR (CADDR containingForm)]
                                (if correctedSelector
                                    then (SETQ selector correctedSelector)
                                        (SETQ method (OR (FindLocalMethod self correctedSelector)
                                                            (_ self MakeLocalMethod correctedSelector]
                                (LET [(ruleSet (AND method (GetMethod self selector 'RuleSet]
                                    (if (NULL method)
                                        then NIL
                                        elseif (ValueFound ruleSet)
                                            then
                                                (_ (GetObjectRec ruleSet)
                                                    EditRules)
                                                ; Here if the method is implemented by a RuleSet.
                                        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 T)
                                                NIL])
                                [Method ((Class PPMMethod)
                                    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))
            (outFile (PPDefault NIL)))
            (if 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 browser menus to add DefRSM

(DEFINEQ

(AddDefRSMtoClassBrowser
    [LAMBDA NIL
        (PROG [(MIDDLEITEMS (GetClassValue ($ ClassBrowser)
            'MiddleButtonItemItems]
            [PutClassValue ($ ClassBrowser)
                'MiddleButtonItemItems
                (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

(FILELOAD (FROM VALUEOF LOOPSUSERSDIRECTORY)
    LOOPSBACKWARDS LOOPSMIXIN)

(FILELOAD (FROM VALUEOF LOOPSUSERSRULESDIRECTORY)
    LOOPSRULES LOOPSRULESP LOOPSRULESC LOOPSRULESD LOOPSRULESTTY)

(AddDefRSMtoClassBrowser)

(PUTPROPS LOOPSRULES-ROOT MAKEFILE-ENVIRONMENT (:PACKAGE "IL" :READTABLE "INTERLISP" :BASE 10))

(PUTPROPS LOOPSRULES-ROOT COPYRIGHT ("XEROX Corporation" 1988))

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FUNCTION INDEX

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PROPERTY INDEX

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