

File created: 15-Aug-90 15:34:38 {DSK}<usr>local>lde>SOURCES>loops>LIBRARY>GAUGEACTIVE.;2

changes to: (VARS GAUGEACTIVECOMS)

previous date: 23-Feb-88 23:30:19 {DSK}<usr>local>lde>SOURCES>loops>LIBRARY>GAUGEACTIVE.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

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(RPAQQ **GAUGEACTIVECOMS**

```
((DECLARE%: DONTCOPY (PROP MAKEFILE-ENVIRONMENT GAUGEACTIVE))
 (FILES (FROM VALUEOF LOOPSLIBRARYDIRECTORY)
  GAUGESCALES)
 (CLASSES ActiveGaugeMixin ActiveHorizontalScale ActiveVerticalScale)
 (METHODS ActiveGaugeMixin.Attach ActiveGaugeMixin.Change)
 (CURSORS HorizontalAGCursor VerticalAGCursor)
 (FNS MakeActiveGaugeMenu)
 (P (MakeActiveGaugeMenu))))
```

(DECLARE%: DONTCOPY

(PUTPROPS **GAUGEACTIVE MAKEFILE-ENVIRONMENT** (:PACKAGE "IL" :READTABLE "INTERLISP" :BASE 10))
)

(FILESLOAD (**FROM** VALUEOF LOOPSLIBRARYDIRECTORY)
GAUGESCALES)

(DEFCLASSES ActiveGaugeMixin ActiveHorizontalScale ActiveVerticalScale)

(DEFCLASS ActiveGaugeMixin (MetaClass AbstractClass Edited%: (* edited%: "29-Jan-87 00:03")
doc "Abstract classes are placeholders in the inheritance network, which
cannot themselves be instantiated.")
(Supers Object)
(InstanceVariables (cursor NIL doc "the cursor to use when changing the scale.")
(fixedNewValue? NIL doc "set to T if the value returned from the user interaction is to be a
fixnum and not a floating point number.")))

(DEFCLASS ActiveHorizontalScale (MetaClass Class Edited%: (* edited%: "29-Jan-87 00:21")
doc "This is the default metaClass for all classes")
(Supers ActiveGaugeMixin HorizontalScale)
(ClassVariables (CARorCDR CAR doc "used to extract the xcoord of the mouse position"))
(InstanceVariables (cursor NIL %:initForm HorizontalAGCursor)))

(DEFCLASS ActiveVerticalScale (MetaClass Class Edited%: (* edited%: "29-Jan-87 00:20")
doc "This is the default metaClass for all classes")
(Supers ActiveGaugeMixin VerticalScale)
(ClassVariables (CARorCDR CDR doc "used to extract the ycoord of the mouse position"))
(InstanceVariables (cursor NIL %:initForm VerticalAGCursor)))

(\BatchMethodDefs)

(METH ActiveGaugeMixin Attach (obj varName propName type xOrPos y)
"Attach Set button if it isn't there already"
(category (ActiveGaugeMixin)))

(METH ActiveGaugeMixin Change NIL "Update gauge when attached variable is accessed" (category (ActiveGauge)))


```
[Method ((ActiveGaugeMixin Attach)
 self obj varName propName type xOrPos y)
 "Attach Set button if it isn't there already"
 (PROG1 (_Super)
  (OR (for w in (ATTACHEDWINDOWS (@ window)) thereis (WINDOWPROP w 'GAUGE))
   (LET [(newButton (create MENU
    ITEMS _ '((Set NIL "Set the value of the variable the gauge is attached
    to.))
    CENTERFLG _ T
    WHENSELECTEDFN _ (FUNCTION (LAMBDA (ITEM MENU)
    (_ (WINDOWPROP (WFROMMENU MENU)
    'GAUGE)
    Change]
    ;; Attach the new button to the gauge's window, and put the gauge on the button's window so it can find the gauge
    (ATTACHMENU newButton (@ window)
    'BOTTOM)
    (WINDOWPROP (WFROMMENU newButton)
    'GAUGE self)))]])
```


[Method ((ActiveGaugeMixin Change)
self)
"Update gauge when attached variable is accessed" ; RBGMartin 30-Jan-87 03:19

```

(COND
  [(_ self Attached? T)
   (RESETLST
    (RESETSAVE (CURSOR (@ cursor)))
    (until (MOUSESTATE LEFT) do (BLOCK))
    (bind (av _ (CAR (@ containedInAV)))
      avObject avVarName avPropName avType newValue until (MOUSESTATE (NOT LEFT))
      first (SETQ avObject (@ av object))
            (SETQ avVarName (@ av varName))
            (SETQ avPropName (@ av propName))
            (SETQ avType (@ av type))
      do (BLOCK)
        [SETQ newValue (PLUS (@ inputLower)
                              (TIMES (@ inputRange)
                                     (FQUOTIENT (DIFFERENCE (APPLY* (@ |::CARorCDR|)
                                                                    (CURSORPOSITION NIL (@ window)))
                                                                    (@ lower))
                                                (@ range]
          (PutIt avObject avVarName (COND
            ((@ fixedNewValue?)
             (FIXR newValue))
            (T newValue))
          avPropName avType))))]
    (T (_ self PromptPrint "Not Attached"]

(\UnbatchMethodDefs)

(RPAQ HorizontalAGCursor (CURSORCREATE '

  'NIL 7 15))

(RPAQ VerticalAGCursor (CURSORCREATE '

  'NIL 0 7))

(DEFINEQ

(MakeActiveGaugeMenu
  [LAMBDA NIL
    (SETQ ActiveGaugeMenu (create MENU
      ITEMS _ '((Set NIL "Set the value of the variable the gauge is attached to.))
      CENTERFLG _ T
      WHENSELECTEDFN _ (FUNCTION (LAMBDA (ITEM MENU)
        (_ (WINDOWPROP (WFROMMENU MENU)
          'GAUGE)
          Change]))
    )

(MakeActiveGaugeMenu)

(PUTPROPS GAUGEACTIVE COPYRIGHT ("Venue & Xerox Corporation" 1986 1987 1988 1990))

```

FUNCTION INDEX

MakeActiveGaugeMenu2

VARIABLE INDEX

HorizontalAGCursor2 VerticalAGCursor2

PROPERTY INDEX

GAUGEACTIVE1