

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))

```

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MakeActiveGaugeMenu .....2

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**VARIABLE INDEX**

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**PROPERTY INDEX**

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