Rocky Enterprise Linux 9.2 Manual Pages on command 'XtAppAddSignal.3'

$ man XtAppAddSignal.3

XtAppAddSignal(3)   XT FUNCTIONS   XtAppAddSignal(3)

NAME

   XtAppAddSignal, XtRemoveSignal, XtNoticeSignal - register and remove a signal source

SYNTAX

   #include <X11/Intrinsic.h>

   XtSignalId XtAppAddSignal(XtAppContext app_context, XtSignalCallbackProc proc, XtPointer

      client_data);

   void XtRemoveSignal(XtSignalId id);

   void XtNoticeSignal(XtSignalId id);

ARGUMENTS

   app_context

      Specifies the application context.

   client_data

      Specifies the argument that is to be passed to the specified procedure when a

      signal has been raised.

id   Specifies the ID returned from the corresponding XtAppAddSignal call.

proc   Specifies the procedure that is to be called when the signal has been raised.

DESCRIPTION

The XtAppAddSignal function initiates a mechanism for handling signals within the context
of the Intrinsics. Prior to establishing an operating system dependent signal handler the
application may call XtAppAddSignal and store the returned id in a place accessible to the
signal handler.

Upon receipt of a signal from the operating system, the application may call XtNoticeSig?
nal passing the id returned by the call to XtAppAddSignal.

XtNoticeSignal is the only Intrinsics function that can safely be called from a signal
handler. If XtNoticeSignal is called multiple times before the Intrinsics are able to in?
voke the registered callback, the callback is only called once. Logically the Intrinsics
maintain ?pending? for each registered callback. This flag is initially False and is set
to True by XtNoticeSignal; the Intrinsics invoke the callback whenever the flag is True,
and the flag is set to False just before the callback is invoked.

The XtRemoveSignal function is called to remove the specified Intrinsics signal handler.
The client should disable the source of the signal before calling XtRemoveSignal.

SEE ALSO

XtAppAddTimeOut(3),XtAppAddInput(3),XtAppAddWorkProc(3)

X Toolkit Intrinsics - C Language Interface

Xlib - C Language X Interface