X11 INPUT SYNTHESIS EXTENSION PROPOSAL

X Consortium Standard

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Version 1.0

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!

" #

$

"%& '(")*+& , +'-,.&. /* , 0),"%'1")*++*2"3 '(*23
4,2. &5 +& '+ ,6 7,&. ,2871.,29 :1" 2'" 7,6,"&. "' "%&
)*++*2",& '(6&+8%*2"*:,7,"3 (,"2& ('+ * *+",817*+
1+ ' & *2. 2'2,2(+,29&6&2'$,2 2' &-&2" %*77 "%& 5
8'2 '+",16 :& 7,*:7& ('+ *23 87*,6 .*6*9& '+ '"%&+ 7,*:,7,
"3)%&"%&+ ,2 *2 *8",'2 '(8'2"+*8" "'+" '+ '"%&+), &
+, ,29 (+'6 '1" '('+ ,2 8'22&8",'2)," "% "%& '(")+& '+
"%& 1 & '+ '"%&+ .&*7,29 ,2 "%& '(")*+&$

&; 5 8

#

< 5 8 $

5) = " ' 9 $

Abstract

" ; 5>> # 5 $

Table of Contents

, $$$$

Introduction

" ; 5>> # 5 $, #
!

A , # B
$

A , # $

" #
5 " 8 5 $:
5 " 8 ; $ "
$

" ; B # # $ "
C C ; 5>> # &;
$ % # ;
$

Conventions Used In This Document

" # 5
!

A " ; C5" C
< $

A " B 5 #
C;D E+ BC$

A " B 5 #
C5FD EC$

A " ; C5" C
$

A * ; # #
C; ; >$ C G $

Definition Of Terms

Input Actions

, # =
$ "
; $

User Input Actions

1 #
#
= = $

What Does This Extension Do?

) ; #
5 # $

" ; !

A , #
$ " # #
5 B ; $ "
# #
$

A 1 # #
$ " # $ "
# 5 #
; $ " #
#
$ " $

A 1 #
$

Functions In This Extension

High Level Functions

" # $

XTestMovePointer

```
int XTestMovePointer(*display, device_id, delay, x, y, count);
```

5 # $

F #
$ " #
# H $

#
$

; ; # #
$

C ; C
$

" XTestMovePointer # $
" B ;
B 5" ($ "
$)
=
$

" XTestMovePointer > H $

XTestPressButton

int **XTestPressButton**(*display, device_id, delay, button_number, button_action);

5 # $

F #
$ " #
# H
$

$

F $

F

$

" XTestPressButton # $
" B ;
B 5" ($ "
$)
= # $

" XTestPressButton > H $

XTestPressKey

int **XTestPressKey**(*display, device_id, delay, keycode, key_action);

5 # $

F = #
$ " #
= # H $

$

= = $

= F
$

" XTestPressKey # $ "
B ;
B 5" ($ "
$)
= = = # $

" XTestPressKey > H $

XTestFlush

int **XTestFlush**(*display);

5 # $

" XTestFlush # $

" XTestFlush > H $

Low Level Functions

XTestGetInput

```
int XTestGetInput(*display, action_handling);
```

5 # $

F # $
H I
C C $

" XTestGetInput #
$ "
5 XNextEvent + $

" # # *! "#$* #
$ # #
; 5>>
! "#$ # 5 ; $
, !

; 5" , * " I

A * *"#$ % # &* # H #
! "#$ # $ "
$

A * *"#$ % # &* # # =
! "#$ # $ "
#
= # $

A * *"#$ % # &* # # =
$ "
=
= # $

A * *"#$ % # &* # C C #
$ "
$

A * *"#$ % # &* # #

; $

" # $
" !

= J J " =
= I =

$

J "

$,
$

J "
#
$

"

$

" XTestGetInput > H $

* ' "" B
$

XTestStopInput

```
int XTestStopInput(*display);
```

5 # $

" XTestStopInput #
$"
; # $

" XTestStopInput > H $

* ' "" B
# $

XTestFakeInput

```
int XTestFakeInput(*display, *action_list_addr, action_list_size,
ack_flag);
```

5 # $

F F
$

F F < < $,
($

=F #
#
)
) * $

" XTestFakeInput # =
$

" # $ "
XTestQueryInputSize ; $

" ″+ , &)
) + ! $

" ″+ , &) *
) + ! $

) # ″+ , & #) *
) + ″+
$) # =
$

;
5>>) + ″+ #
5 ; $, !

; 5" (= * =" I

" # $
" !

= J J " =
= I =

= $

J "

#
$,
$

J "

#
$

"

$

" XTestFakeInput > H $

* K ,: * K +
# #
$

XTestQueryInputSize

```
int XTestQueryInputSize(*display, size_return);
```

5 # $

< F + # C
$

" XTestQueryInputSize = #

K , < F K +$

" XTestQueryInputSize > H
$

XTestReset

```
int XTestReset(*display);
```

5 # $

" XTestReset # # #
; = $* # ;
; $ "

$

" XTestReset > H $