X Synchronization Extension Library

X Consortium Standard

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X Synchronization Extension Library: X Consortium Standard

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Chapter 1. Synchronization Protocol

[illegible]

[illegible]

[illegible]

Description

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Alarm [illegible]

Chapter 2. C Language Binding

[illegible]

[illegible]

C Functions

[illegible]

```
Status XSyncQueryExtension( *dpy, *event_base_return,
*error_base_return);
```

[illegible] `XSyncQueryExtension` [illegible]

```
Status XSyncInitialize( *dpy, *major_version_return,
*minor_version_return);
```

`XSyncInitialize` [illegible] `True` [illegible] `False` [illegible]

```
XSyncSystemCounter *XSyncListSystemCounters( *dpy,
*n_counters_return);
```

`XSyncListSystemCounters` [illegible] `XSyncFreeSystemCounterList` [illegible]

[illegible]

[illegible]

```
void XSyncFreeSystemCounterList( *list);
```

`XSyncFreeSystemCounterList` [illegible] `XSyncListSystemCounters` [illegible]

XSyncCounter **XSyncCreateCounter**(*dpy*, *initial_value*);

XSyncCreateCounter)&%/&&&)00None.%%%&6BA2

Status **XSyncSetCounter**(*dpy*, *counter*, *value*);

XSyncSetCounter)0False.%%%&6BA2O&/True

Status **XSyncChangeCounter**(*dpy*, *counter*, *value*);

XSyncChangeCounter)0False.%%%&6BA2O&/True

Status **XSyncDestroyCounter**(*dpy*, *counter*);

XSyncDestroyCounter)0False.%%%&6BA2O&/True

Status **XSyncQueryCounter**(*dpy*, *counter*, **value_return*);

XSyncQueryCounterLM&).)0False.&/))/&&.%%%&6BA2O&/True

Status **XSyncAwait**(*dpy*, **wait_list*, *n_conditions*);

XSyncAwait/&)/M&M)&./)/M0False%%%&6BA2O&/True&/%))&&O&.)/.&,

6)&&./.:

6))O8L)L8
6)%M%O8L8L8
6)/MO8L)%)L8
6)%M%O8L%8)%8L8
6)M&&O8L.%&&L8

XSyncValueType)&XSyncAbsoluteXSyncRelative

XSyncTestType)XSyncPositiveTransitionXSyncNegativeTransition XSyncPositiveComparisonXSyncNegativeComparison

XSyncAlarm **XSyncCreateAlarm**(*dpy*, *values_mask*, **values*‘);

XSyncCreateAlarm)&00A.&%%%&6BA2&M1%).&

XSyncAlarmAttributes&&./.&M1)%).&&&)&(!M1)&&.&)%/)%%..

[illegible] CreateAlarm [illegible]

[illegible]

```
Status XSyncDestroyAlarm( *dpy, alarm);
```

XSyncDestroyAlarm [illegible] False [illegible] True [illegible]

```
Status XSyncQueryAlarm( *dpy, alarm, *values_return);
```

XSyncQueryAlarm [illegible] False [illegible] True [illegible]

```
Status XSyncChangeAlarm( *dpy, alarm, values_mask, *values);
```

XSyncChangeAlarm [illegible] XSyncCreateAlarm [illegible] False [illegible] True [illegible]

```
Status XSyncSetPriority( *dpy, client_resource_id, priority);
```

XSyncSetPriority [illegible] False [illegible] True [illegible]

```
Status XSyncGetPriority( *dpy, client_resource_id, *return_priority);
```

XSyncGetPriority [illegible] False [illegible] True [illegible]

C Macros/Functions

[illegible]

```
void XSyncIntToValue( *pv, i);
```

[illegible] XSyncValue [illegible]

```
void XSyncIntsToValue( *pv, low, high);
```

6/&/#F.L%&&&&&&#F.L%

Bool **XSyncValueGreaterThan**(*a*, *b*);

!True.&False

Bool **XSyncValueLessThan**(*a*, *b*);

!True.&False

Bool **XSyncValueGreaterOrEqual**(*a*, *b*);

!True.&,False

Bool **XSyncValueLessOrEqual**(*a*, *b*);

!True.&,False

Bool **XSyncValueEqual**(*a*, *b*);

!True.,False

Bool **XSyncValueIsNegative**(*v*);

!True.False

Bool **XSyncValueIsZero**(*v*);

!True.EFalse

Bool **XSyncValueIsPositive**(*v*);

!True.%False

unsigned int **XSyncValueLow32**(*v*);

!&/#F.

unsigned int **XSyncValueHigh32**(*v*);

!&&&#F.

void **XSyncValueAdd**(**presult*, *a*, *b*, **poverflow*);

=&L%0.&).HIL%R/TrueFalse

void **XSyncValueSubtract**(**presult*, *a*, *b*, **poverflow*);

6).&L%0.&).HIL%R/TrueFalse

void **XSyncMaxValue**(**pv*);

6L%&22%HI

void **XSyncMinValue**(**pv*);

6L%&2%HI

Events

[illegible] XSync-QueryExtension[illegible]

[illegible] XSyncCounterNotifyEvent [illegible] XSyncCounterNotify [illegible]

[illegible]

[illegible] XSyncAlarmNotifyEvent [illegible] XSyncAlarmNotify [illegible]

[illegible]

Errors

[illegible] XSync-QueryExtension[illegible]

[illegible] XSyncAlarmError [illegible] XSyncBadAlarm [illegible]

[illegible]

[illegible] XSyncCounterError [illegible] XSyncBadCounter [illegible]

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