Double Buffer Extension Protocol

X Consortium Standard

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X Consortium

Double Buffer Extension Protocol: X Consortium Standard

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Chapter 3. Concepts

[illegible] `CreateWindow` [illegible]

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[illegible]

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Window Management Operations

[illegible]

[illegible] `DestroyWindow` [illegible]

[illegible] `ConfigureWindow` [illegible]

[illegible] `ConfigureWindow` [illegible] `Expose` [illegible]

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[illegible]

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Complex Swap Actions

[illegible]

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Chapter 4. Requests

2$9 1$1/+

DBEGetVersion

2$+$I1$5

9-

*I	8 &
*	8 &
JL	S
I	8 &
	8 &

2$*I*I*/$1 $#**$*/$#2$I $*$#*$5*##2$$+$$*8#*=>##2 I/$*11 1$9#*$*$I/* 1*#*$$/*1 #/*#*$,$##$#*1$* /I1=>1 ?=">

2$9*9-+1$11 +*##*@$/$*/ 1$=9/0>

DBEGetVisualInfo

2$+1/$*$##11

9-1

*#*1	E,21 889E
JL	S
1	E,21, :,:H7

/$A

, :,:H7	E,21,:H7
,:H7	MA,G8E
S	#$A8 &
S	#1A8 &N

A/

[illegible] `able` [illegible]

[illegible]

DBEAllocateBackBufferName

[illegible]

[illegible]

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[illegible]	[illegible]
[illegible]	[illegible]

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[illegible] `DBESwapBuffers` [illegible] `DBESwapBuffers` [illegible]

[illegible]

[illegible] `DBEGetVisualInfo` [illegible]

DBEDeallocateBackBufferName

[illegible] `DBEAllocateBackBufferName` [illegible]

9*9*0911:

*011 98F9GHH

A911

2$*011#$+1*/$
$//1$$$*011*/$$//$$$
*011***11*
*/$$//12$/D*111
$111

2$*01198F9GHH */$//=
911>

DBESwapBuffers

2$+/#$111//##$###/#
1$//

`DBESwapBuffers`

///	E,21,8:H7

/$A

,8:H7	M//A:7
S	/#*A,882:7:N
,882:7:	OG19*0G*$#P

A6*$/

*$//#$+:7=`Window`
>*$//#$+11///
=`Match`>*$//#$+
=`Match`>$/#*$$1$
#*11#,882:7:=`Value`>1
1$11///$$11/##

2$/#*/$/$##$/*0111$//
#/$$0$*011*
2$1*1/A

G1	2$*1$/*0111*12$ $11***/$#* $*1$111
9*0 	2$*1$/*011//$$ //*02$*0*/* 1**#/#
G*$	2$*1$/*011/1 $/#

□□#□□□	2$□□□□□□*□□□□□□□□□□□□1□□$□□□□/□□□*0□□□11□□□/□□□□□□□$□□*□□□□□□□□1□$□□□□□□□□*0□□□11□□□

□1□`DBESwapBuffers`□□□□□□*□□□□□□□□□□□C□/□#□□□□□*□□□□C□□□#□□□1□□□□□□□□□□□□□□□□□□□□□□□□□□□□□1□□□□/□□$`DBEBeginIdiom`□□□+□□□□□

DBEBeginIdiom

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DBEBeginIdiom
```

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DBEEndIdiom

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```
DBEEndIdiom
```

2$□□□□□□□1□□*□□□□□□1□□$□□□□□+□□□□□□□□□□□□□□□□□□□□□□□C□□□0□□C□□$□□□□$□□□□□□□□□*□□□□□□□□□□□□□□□□□□□□□□#□□*□□□□□□□□2$□□□□□□□□□□□□□1□□□□□□□□□#□□□□□□□□$□□□□□+□□□□□□□□□□□□□□□#□

DBEGetBackBufferAttributes

2$□□□□□+□□□□□□□□□□□□□□□□1□□□□□□□□□□□□□□□□□□□□*0□□□11□□□

```
DBEGetBackBufferAttributes
```

□□*0□□□11□□□□□□□	98□F9GHH□
JL	S
□□□□□□□□□□□	9GHH□ Q822 □9G2□,

/$□□□A

9GHH□ Q822 □9G2□,A□M□/□□□□/A□□□:□7□□N

□1□□□*0□□□11□□□□□□□□□□□□□□□□□□□□□98□F9GHH□ □□□$□□/□□□□/□1□□□□□□1□□$□□□□□□□□□□□□□□□□□$□□□□#□□□/□□□□□□□□$□□/□□□□/□/$□*$□$□□□□$□□□□*0□□□11□□□□$□□□□□*0□□□11□□□□□□□□□□1□□□□□□□□1□□□*0□□□11□□□□□□□□□□□□□□□□□□□□□□□□□□98□F9GHH□ □□□$□□/□□□□/□1□□□□□□1□□$□□□□□□□□□□□□□□□□□□□□$□□□□#□□□/□□□□□□□:□□□□

Chapter 5. Encoding

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2$□□□□□□□□1□□$□□□□5□□□□□□□□□□□C□7G9E□□9GHH□ C□

Type

2$□□1□□□□□/□□□□□□□□/□□□□#□□□□□□□□□□□□□□□□□□□□□□$□□□□5□□□□□□□□□□□

98□F9GHH□ A□□□□

,□8□8□2□7:

```
#x00  Undefined
#x01  Background
#x02  Untouched
#x03  Copied
```

,□8□□:H7

```
4     WINDOW                 window
1     SWAPACTION             swap action
3                            unused


VISINFO
4     VISUALID                visual
1     CARD8                   depth
1     CARD8                   perflevel
2                             unused

SCREENVISINFO
4     CARD32                  n, number in list
8n    LISTofVISINFO           n VISINFOs

BUFFER_ATTRIBUTES
4     WINDOW                 window
```

Error

```
Buffer


1     0                       error
1     error base + 0          code
2     CARD16                  sequence number
4     CARD32                  bad buffer
2     CARD16                  minor-opcode
```

```
1     CARD8                     major-opcode
21                              unused
```

Request

```
DBEGetVersion
1     CARD8                   major-opcode
1     0                       minor-opcode
2     2                       request length
1     CARD8                   client-major-version
1     CARD8                   client-minor-version
2                             unused
=>
1                             unused
2     CARD16                  sequence number
4     0                       reply length
1     CARD8                   server-major-version
1     CARD8                   server-minor-version
22                            unused
```

```
DBEAllocateBackBufferName


1     CARD8                   major-opcode
1     1                       minor-opcode
2     4                       request length
4     WINDOW                  window
4     BACKBUFFER              back buffer name
1     SWAPACTION              swap action hint
3                             unused
```

```
DBEDeallocateBackBufferName


1     CARD8                   major-opcode
1     2                       minor-opcode
2     2                       request length
4     BACKBUFFER              back buffer name
```

```
DBESwapBuffers


1     CARD8                     major-opcode
1     3                         minor-opcode
2     2+2n                      request length
4     CARD32                    n, number of window/swap action pairs in list
8n    LISTofSWAPINFO            window/swap action pairs
```

```
DBEBeginIdiom


1     CARD8                     major-opcode
1     4                         minor-opcode
2     1                         request length
```

DBEEndIdiom

```
1     CARD8                   major-opcode
1     5                       minor-opcode
2     1                       request length
```

DBEGetVisualInfo

```
1     CARD8                   major-opcode
1     6                       minor-opcode
2     2+n                     request length
4     CARD32                  n, number of screen specifiers in list
4n    LISTofDRAWABLE          n screen specifiers
=>
1     1                       Reply
1                             unused
2     CARD16                  sequence number
4     CARD32                  reply length
4     CARD32                  m, number of SCREENVISINFOs in list
20                            unused
4j    LISTofSCREENVISINFO     m SCREENVISINFOs
```

DBEGetBackBufferAttributes

```
1     CARD8                   major-opcode
1     7                       minor-opcode
2     2                       request length
4     BACKBUFFER              back-buffer-name
=>
1                             unused
2     CARD16                  sequence number
4     0                       reply length
4     BUFFER_ATTRIBUTES       attributes
20                            unused
```

Chapter 6. Acknowledgements

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Chapter 7. References

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