

## Appendix D

### GL Error Messages

This appendix lists of error messages used in the Graphics Library. Errors are listed by the error number that is output by the system when your program has an error. A probable cause is listed for each error, except for errors that are listed as “not documented”.

This information is intended to be a suggestion about what you should consider when debugging your program. The cause listed may not be the reason you received that particular error message, but you should check your program for the listed condition before proceeding with debugging.

No.	Error	Probable Cause
1	ERR_SINGMATRIX	The matrix given cannot be inverted. Usually caused by scaling a zero value, or setting near or far planes to 0, or to equal values.
2	ERR_OUTMEM	Ran out of memory, <i>malloc</i> failed.
3	ERR_NEGSIDES	Program attempted to generate a polygon with less than zero sides.
4	ERR_BADWINDOW	Values for <i>left-right</i> , <i>top-bottom</i> , or <i>far-near</i> were probably switched. The <i>left</i> , <i>top</i> , and <i>far</i> values must be greater than <i>right</i> , <i>bottom</i> , and <i>near</i> values.
5	ERR_NOOPENOBJ	Program attempted to edit an object when there was no object to edit.
6	ERR_NOFONTRAM	Obsolete.

**Table D-1** GL Error Messages and Probable Causes

No.	Error	Probable Cause
7	ERR_FOV	<i>fovy</i> must be greater than 1.0 and less than or equal to 1800. Note: the <i>fovy</i> should be ten times the angle than is the result of the tangent of the window width and the distance from viewer to screen for best results, that is, <i>fovy</i> for a full screen seen 2 feet away should be about 337 (inverse tan of 16/24).
8	ERR_BASISID	Pointers to the matrices being used for precision or curve type bspline, cardinal, or bezier are not equivalent or the pointer is null. Also, possibly one of the basis id's was not found, an undefined basis number is used.
9	ERR_NEGINDEX	Not documented.
10	ERR_NOCLIPPERS	Does not occur on IRIS 4D systems
11	ERR_STRINGBUG	Not documented.
12	ERR_NOCURVBASIS	Basis for the curve must be set before drawing the curve.
13	ERR_BADCURVID	Not documented.
14	ERR_NOPTCHBASIS	Basis for the patch must be set before drawing the patch.
15	ERR_FEEDPICK	Not documented.
16	ERR_INPICK	Program is already picking, can't try to pick twice at same time.
17	ERR_NOTINPICK	Program not in pick mode when trying to end feedback or end pick or select mode.
18	ERR_ZEROPICK	The size of the picking region is non-positive.
19	ERR_FONTBUG	Not documented.
20	ERR_INRGB	Program attempted to set mapcolor or writemask while in RGBmode.

**Table D-1 (continued)** GL Error Messages and Probable Causes

No.	Error	Probable Cause
21	ERR_NOTINRGBMODE	Program attempted to use a RGBmode routine while not in RGBmode.
22	ERR_BADINDEX	Color is not within valid index range.
23	ERR_BADVALUATOR	Program attempted to use a non-existing valuator.
24	ERR_BADBUTTON	Program attempted to access an illegal button number.
25	ERR_NOTINDBMODE	Program should be in dial button box mode to call current procedure.
26	ERR_BADINDEXBUG	Not documented.
27	ERR_ZEROVIEWPORT	The values for {x1   y1} are larger than {x2   y2} in the definition of screen coordinates. Thus, the size of the viewport is too small.
28	ERR_DIALBUG	Not Documented.
29	ERR_MOUSEBUG	Not Documented.
30	ERR_RETRACEBUG	Not Documented.
31	ERR_MAXRETRACE	Program attempted to execute more than the maximum number of retrace events allowed.
32	ERR_NOSUCHTAG	The tag chosen is not in the hash table or at the beginning of the object set up. It cannot be found.
33	ERR_DELBUG	Not documented.
34	ERR_DELTAG	Program attempted to delete a non-existent or incorrect tag.
35	ERR_NEGTAG	Object tag is less than zero.
36	ERR_TAGEXISTS	Program attempted to create an object with an index number that already exists.

**Table D-1 (continued)** GL Error Messages and Probable Causes

No.	Error	Probable Cause
37	ERR_OFFTOOBIG	Offset is too large, program attempted to step beyond edge of object.
38	ERR_ILLEGALID	Program attempted to make an object with an id that is negative.
39	ERR_GECONVERT	Not documented.
40	ERR_BADAXIS	Axis must be named with {x X y Y z Z} anything else will give error.
42	ERR_BADDEVICE	The graphics manager couldn't be reached. This is a fatal error.
44	ERR_PATCURVES	Not documented.
45	ERR_PATPREC	Not documented.
46	ERR_CURVPREC	Not documented.
47	ERR_PUSHATTR	The attribute stack is full, pop or clear attribute stack first.check for unbalanced code.
48	ERR_POPATTR	The attribute stack is empty, something must be put there first. Check for unbalanced code.
49	ERR_PUSHMATRIX	The matrix stack is full. Clear or pop first. Check for unbalanced code.
50	ERR_POPMATRIX	The matrix stack is empty, something must be put there first.check for unbalanced code.
51	ERR_PUSHVIEWPORT	The viewport stack is full, pop or clear viewport stack first. Check for unbalanced code.
52	ERR_POPVIEWPORT	The viewport stack is empty, something must be put there first. Check for unbalanced code.
53	ERR_SIZEFIXED	Object size is frozen, chunksize cannot change after start of object definition.

**Table D-1 (continued)** GL Error Messages and Probable Causes

No.	Error	Probable Cause
54	ERR_SETMONITOR	Not documented. {illegal monitor type?}
55	ERR_CHANGEINDEX0	Program was attempting to redefine the default style of {line   cursor   font   etc}, change index 0 to some other value.
56	ERR_BADPATTERN	Bad size of pattern, only use 16, 32 or 64
67	ERR_CURSORNOTFOUND	An invalid cursor name was given, check and change value.
58	ERR_FONTHOLES	Not documented.
59	ERR_REPLACE	Program attempted to replace past end of object.
60	ERR_STARTFEED	Not documented.
61	ERR_CYCLEMAP	Not documented.
62	ERR_TAGINREPLACE	Program attempted to make a tag in replace mode. only replace graphics commands
63	ERR_TOOFEWPTS	The Program attempted to create a rational curve with less than 4 points.
64	ERR_UNDEFINEDCHAR	Not documented.
65	ERR_BADCURSOR	Bad size, only use 16, or 32 or default cursor types.
66	ERR_NOTINCOLORMODE	To use <i>getcurs</i> or, program must be in proper mode. Not documented.
67	ERR_UNKNOWNCMDLENGTH	Routine fell through the case statement for checking size of number of polygon points. New command must be same length as the old command.
68	ERR_INFEEDBACK	Program trying to enter feedback when in feedback mode.

**Table D-1 (continued)** GL Error Messages and Probable Causes

No.	Error	Probable Cause
69	ERR_DURINGFEEDBACK	Program trying to exit feedback when not in feedback.
70	ERR_DURINGSELECT	System failure occurred in <code>endpick</code> .
71	ERR_ARGMISMATCH	Buffer specified in <code>endfeedback</code> , <code>endpick</code> or <code>select</code> , must be same as buffer started with
72	ERR_TOOMANYARGS	Program attempted to use more than ten arguments in a function call. This is error.
73	ERR_OBJNOTFOUND	There is no header or no valid header in the object the Program called. <code>object</code> was invalid.
74	ERR_MAKEROOMINREPLACEMODE	Program attempted to reorganize display list entries while in replace mode.This is a error.
75	ERR_UNABLETOOPEN	The <i>gid</i> value given to the hardware is invalid or less than 0.
76	ERR_QUEUEINGDEVICE	Program attempted to queue a non-existing device.
77	ERR_UNQUEUEINGDEVICE	Program attempted to unqueue a non-existing device.
78	ERR_GETBUTTONERROR	Program attempted to get a non-existing button value.
79	ERR_GETVALUATORERROR	Program attempted to get an invalid valuator.
80	ERR_SETVALERROR	Program attempted to set an invalid valuator.
81	ERR_TIEERROR	Program attempted to tie a non-valid device id.
82	ERR_NOISEERROR	Not documented.
83	ERR_ATTACHCURSOR	Not documented.

**Table D-1 (continued)** GL Error Messages and Probable Causes

No.	Error	Probable Cause
84	ERR_MAPDEVICE	Not documented.
85	ERR_WINATTACH	Not documented.
86	ERR_NOSUCHWINDOW	Program attempted to switch to or close an invalid window.
87	ERR_CLOSEDLASTWINDOW	Not documented.
88	ERR_LINESTYLENOTFOUND	Not documented.
89	ERR_PATTERNNOTFOUND	Not documented.
90	ERR_NULLWSINCLONING	Not documented.
91	ERR_USERERROR	Error message, used for anything that won't fit in other messages
92	ERR_NOFONTFOUND	The name of the font given was not found, check the list in <i>/usr/lib/fmfonts</i>
93	ERR_WMANIPC	Message being sent to the window manager was too large.
94	ERR_INPUTOPEN	Not documented.
95	ERR_RESETINGQ	Program attempted to reset a non-valid queue id.
96	ERR_GETTP	Program attempted to access an non-valid textport id.
97	ERR_TOOMANYSIDES	Program attempted to create a polygon with more than 255 vertices.
98	ERR_INVALIDMODE	Program attempted to enter an invalid mode.
99	ERR_INVALIDPARENT	There is no parent state for current window.
106	ERR_NOWIN	No window manager running.

**Table D-1 (continued)** GL Error Messages and Probable Causes

