Types and Constants

The Display PostScript Client Library is composed of system-dependent and a system-independent parts. The *Display PostScript System, Client Library Reference Manual*, by Adobe Systems, Incorporated, provides the specification for the system-independent portion of this library.

The defined types, enumeration constants, and global variables that are part of OpenStep's system-dependent part of the Display PostScript Client Library are listed here.

Defined Types

Number Formats

typedef enum _DPSNumberFormat {

```
#ifdef __BIG_ENDIAN__
    dps_float = 48,
    dps_long = 0,
    dps_short = 32
#else
    dps_float = 48+128,
    dps_long = 0+128,
    dps_short = 32+128
#endif
} DPSNumberFormat;
```

Other permitted values are:

·   For 32-bit fixed-point numbers, use **dps_long** plus the number of bits in the fractional part.

·   For 16-bit fixed-point numbers, use **dps_short** plus the number of bits in the fractional part.

Backing Store Types

```
typedef enum _NSBackingStoreType {
        NSBackingStoreRetained,
        NSBackingStoreNonretained,
        NSBackingStoreBuffered
} NSBackingStoreType;
```

Compositing Operations

```
typedef enum _NSCompositingOperation {
        NSCompositeClear,
        NSCompositeCopy,
        NSCompositeSourceOver,
        NSCompositeSourceIn,
        NSCompositeSourceOut,
        NSCompositeSourceAtop,
        NSCompositeDataOver,
        NSCompositeDataIn,
```

```
                        NSCompositeDataOut,
                        NSCompositeDataAtop,
                        NSCompositeXOR,
                        NSCompositePlusDarker,
                        NSCompositeHighlight,
                        NSCompositePlusLighter
                } NSCompositingOperation;
```

Window Ordering

```
        typedef enum _NSWindowOrderingMode {
                NSWindowAbove,
                NSWindowBelow,
                NSWindowOut
        } NSWindowOrderingMode;
```

User Path Operators

These constants define the operator numbers used to construct the operator array parameter of DPSDoUserPath.

```
typedef unsigned char DPSUserPathOp;
        enum {
                dps_setbbox,
                dps_moveto,
                dps_rmoveto,
                dps_lineto,
                dps_rlineto,
                dps_curveto,
                dps_rcurveto,
                dps_arc,
                dps_arcn,
                dps_arct,
                dps_closepath,
                dps_ucache
        };
```

User Path Actions

These constants define the action of a DPSDoUserPath. In addition to the actions defined here, any other system name index may be used. See the *PostScript Language Reference Manual*, *Second Edition*, by Adobe Systems Incorporated, for a detailed list of system name indexes.

```
        typedef enum _DPSUserPathAction {
                dps_uappend,
                dps_ufill,
                dps_ueofill,
                dps_ustroke,
                dps_ustrokepath,
                dps_inufill,
                dps_inueofill,
                dps_inustroke,
                dps_def,
                dps_put
        } DPSUserPathAction;
```

Enumerations

Special Values for Alpha

enum {
    NSAlphaEqualToData,
    NSAlphaAlwaysOne
};

User Object Representing the PostScript Null Object

enum {
    DPSNullObject
};

Symbolic Constants

Error Code Base

DPS_OPENSTEP_ERROR_BASE

Global Variables

Exception Names

NSString ***DPSPostscriptErrorException;**
NSString ***DPSNameTooLongException;**
NSString ***DPSResultTagCheckException;**
NSString ***DPSResultTypeCheckException;**
NSString ***DPSInvalidContextException;**
NSString ***DPSSelectException;**
NSString ***DPSConnectionClosedException;**
NSString ***DPSReadException;**
NSString ***DPSWriteException;**
NSString ***DPSInvalidFDException;**
NSString ***DPSInvalidTEException;**
NSString ***DPSInvalidPortException;**
NSString ***DPSOutOfMemoryException;**
NSString ***DPSCantConnectException;**