NAME

PEXSetParaSurfCharacteristics - Set Parametric Surface Characteristics

SYNTAX

void PEXSetParaSurfCharacteristics(Display **display*, XID *resource_id*, PEXOCRequestType *req_type*, int *psc_type*, PEXPSCData **characteristics*)

PARAMETERS

display A pointer to a display structure returned by a successful **XOpenDisplay** call.

resource_id The resource identifier of the renderer or structure.

req_type The request type for the output command (**PEXOCRender, PEXOCStore, PEXOCRenderSingle** or **PEXOCStoreSingle**).

psc_type The parametric surface characteristic type (**PEXPSCNone, PEXPSCImpDep, PEXPSCIsoCurves, PEXPSCMCLevelCurves, PEXPSCWCLevelCurves**).

characteristics A pointer to data defining the parametric surface characteristics.

RETURNS

None

DESCRIPTION

This function creates an output primitive attribute which sets the parametric surface *characteristics.* If the specified parametric surface *characteristics* type is not supported, **PEXPSCNone** is used. Supported values for parameteric surface characteristic types are inquirable via **PEXGetEnumTypeInfo**(3)**.**

DATA STRUCTURES

```
typedef union {
        PEXPSCIsoparametricCurves       iso_curves;
        PEXPSCLevelCurves               level_curves;
        PEXPSCImpDepData                imp_dep;
} PEXPSCData;

typedef struct {
        unsigned short      placement_type;
        unsigned short      reserved;
        unsigned short      u_count;
        unsigned short      v_count;
} PEXPSCIsoparametricCurves;

typedef struct {
        PEXCoord            origin;
        PEXVector           direction;
        unsigned short      count;          /* number of parameters */
        unsigned short      reserved;
        float               *parameters;
} PEXPSCLevelCurves;

typedef struct {
```

```
        unsigned short          length;
        char                    *data;
} PEXPSCImpDepData;
```

See also **PEXlib.h.**

ERRORS

BadPEXOutputCommand
The output command contains an invalid value.

BadPEXRenderer
The specified renderer resource identifier is invalid.

BadPEXStructure
The specified structure resource identifier is invalid.