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domesc: almost of all implemented colored polygons and colored shared-polygons

<description>

This data is very similar to ../domes/domes.lab but constructed with colored polygons. Please refer to ../domesc/readme\_e.txt for more detail.

To show shared-polygons, this data performs an animation. Please use anim/animview in HMD sample program directory to run.

The following is a list that describes primitive types of each element of the 3D matrix.

a11:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(QUAD	LMD)	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(QUAD	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(QUAD	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(QUAD	LMD	TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(TRI	LMD)	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(TRI	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(TRI	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT	LGT)	PRIM_TYPE(TRI	LMD	TME)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT	LGT)	PRIM_TYPE(QUAD	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT	LGT)	PRIM_TYPE(QUAD	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT	LGT)	PRIM_TYPE(TRI	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT	LGT)	PRIM_TYPE(TRI	LMD	IIP   TME)

a12:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(QUAD	LMD)	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(QUAD	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(QUAD	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(QUAD	LMD	TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(TRI	LMD)	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(TRI	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(TRI	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(LGT)	PRIM_TYPE(TRI	LMD	TME)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(LGT)	PRIM_TYPE(QUAD	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(LGT)	PRIM_TYPE(QUAD	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(LGT)	PRIM_TYPE(TRI	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(LGT)	PRIM_TYPE(TRI	LMD	IIP   TME)

a13:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(QUAD	LMD)	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(QUAD	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(QUAD	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(QUAD	LMD	TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(TRI	LMD)	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(TRI	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(TRI	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	LGT)	PRIM_TYPE(TRI	LMD	TME)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	LGT)	PRIM_TYPE(QUAD	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	LGT)	PRIM_TYPE(QUAD	LMD	IIP   TME)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	LGT)	PRIM_TYPE(TRI	LMD	IIP)
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	LGT)	PRIM_TYPE(TRI	LMD	IIP   TME)

a21:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(QUAD	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(QUAD	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(TRI	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(TRI	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(BOT)	PRIM_TYPE(TRI	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(BOT)	PRIM_TYPE(TRI	IIP	TME	COL)	;

a22:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(QUAD	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(QUAD	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(TRI	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(TRI	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(0)	PRIM_TYPE(TRI	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(0)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(0)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(0)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(0)	PRIM_TYPE(TRI	IIP	TME	COL)	;

a23:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(QUAD	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(QUAD	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(TRI	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(TRI	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP)	PRIM_TYPE(TRI	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP)	PRIM_TYPE(TRI	IIP	TME	COL)	;

a31:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(QUAD	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(QUAD	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(TRI	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(TRI	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(STP	BOT)	PRIM_TYPE(TRI	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	BOT)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	BOT)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	BOT)	PRIM_TYPE(TRI	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_SHARED)	DRV(STP	BOT)	PRIM_TYPE(TRI	IIP	TME	COL)	;

a32:

DEV_ID(SCE)	CTG(CTG_POLY)	DRV(FOG)	PRIM_TYPE(QUAD	COL)	;		
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(FOG)	PRIM_TYPE(QUAD	IIP	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(FOG)	PRIM_TYPE(QUAD	IIP	TME	COL)	;
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(FOG)	PRIM_TYPE(QUAD	TME	COL)	;	
DEV_ID(SCE)	CTG(CTG_POLY)	DRV(FOG)	PRIM_TYPE(TRI	COL)	;		

```

DEV_ID(SCE) | CTG(CTG_POLY) | DRV(FOG) | PRIM_TYPE(TRI | IIP | COL);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(FOG) | PRIM_TYPE(TRI | IIP | TME | COL);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(FOG) | PRIM_TYPE(TRI | TME | COL);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(FOG) | PRIM_TYPE(QUAD | IIP | COL);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(FOG) | PRIM_TYPE(QUAD | IIP | TME | COL);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(FOG) | PRIM_TYPE(TRI | IIP | COL);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(FOG) | PRIM_TYPE(TRI | IIP | TME | COL);

a33:
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(QUAD | LMD);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(QUAD | LMD | IIP);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(QUAD | LMD | IIP | TME);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(QUAD | LMD | TME);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(TRI | LMD);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(TRI | LMD | IIP);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(TRI | LMD | IIP | TME);
DEV_ID(SCE) | CTG(CTG_POLY) | DRV(STP | BOT | LGT) | PRIM_TYPE(TRI | LMD | TME);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(STP | BOT | LGT) | PRIM_TYPE(QUAD | LMD | IIP);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(STP | BOT | LGT) | PRIM_TYPE(QUAD | LMD | IIP | TME);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(STP | BOT | LGT) | PRIM_TYPE(TRI | LMD | IIP);
DEV_ID(SCE) | CTG(CTG_SHARED) | DRV(STP | BOT | LGT) | PRIM_TYPE(TRI | LMD | IIP | TME);

```

The following steps created this data:

1. The following command-line under IRIX shell environment is invoked to generate colored polygons with different colors for each vertex.

```

tr -d '^M' <../domes/domes.lab |
./iipcol.sh | ./mark.sh | ./col.sh >domesc.lab

```

The first element 'tr' removed DOS line-feed characters in the ../domes/domes.lab. The second element './iipcol.sh' made color changes for each vertex of non-light calculated Gouraud polygons. And './mark.sh' added polygon type names for each label of polygon data as comments. This is a pre-processing for the next step. Finally, './col.sh' generates colored polygons.

2. HMD file "domesc.hmd" is generated by HMD assembler(labp).