Chapter 7

Graphics State Summary

The following tables summarize the variables that make up the Graphics State. Nearly all of the Graphics State variables have a default value as shown below. That value is reestablished for every glyph in a font. Instructions are available for resetting the value of all Graphics State variables. Some state variables can be reset in the CVT Program. In such cases the value set becomes the new default and will be reestablished for each glyph. When value of a state variable is changed by instructions associated with a particular glyph, it will hold only for that glyph.

The setting of the Graphics State variables will affect the actions of certain instructions. Affected instructions are listed for each variable.

Graphics State Variable	Default	Set With	Affects
auto_flip	TRUE	FLIPOFF FLIPON	MIAP MIRP
control_value_cut_in	17/16 pixels	SCVTCI	MIAP MIRP
delta_base	9	SDB	DELTAP1 DELTAP2 DELTAP3 DELTAC1 DELTAC2 DELTAC3
delta_shift	3	SDS	DELTAP1 DELTAP2 DELTAP3 DELTAC1 DELTAC2 DELTAC3
dual_projection_vectors	—	SDPVTL	IP GC MD MDRP MIRP

freedom_vector	x-axis	SFVTCA SFVTL SFTPV SVTCA SFVFS	GFV
gep0	1	SCE0 SCES	AA ALIGNPTS ALIGNRP DELTAP1 DELTAP2 DELTAP3 IP ISECT MD MDAP MIAP MIRP MSIRP SHC SHE SHP UTP
gep1	1	SCE1 SCES	AA ALIGNPTS ALIGNRP IP MD MDRP MIRP MSIRP SHC SHE SHP SFVTL SPVTL

gep2	1	SCE3 SCES	ISECT IUP GC SHC SHP SFVTL SHPIX SPVTL SC
instruct_Control	0	INSTCTRL	all instructions
loop	1	SLOOP	ALIGNRP FLIPPT IP SHP SHPIX
minimum_distance	1 pixel	LMD	MDRP MIRP
projection_vector	x-axis	SPVTCA SPVTL SVTCA SPVFS	GPV
round_state	1	RDTG ROFF RTDG RTG RTHG RUTG SROUND S45ROUND	MDAP MIAP MDRP MIRP ROUND
rp0	0	SRP0	IP MDAP MIAP MIRP MSIRP SHC SHE SHP

rp1	0	SRP1	IP MDAP MDRP MIAP MSIRP SHC SHE SHP
rp2	0	SRP2	IP MDRP MIRP MSIRP SHC SHE SHP
scan_control	FALSE	SCANCTRL SCANTYPE	
singe_width_cut_in	0 pixels	SSWCI	MIAP MIRP
single_width_value	0 pixels	SSW	MIAP MIRP