

Resets and the 'C6x11 DSP Starter Kits

There are several options available to DSK users that tend to get confused. Within Code Composer (Studio) (CC(S)) there are two options on the Debug menu and one on the GEL menu. There are also two options in the DSK application programming interface (API). And there is a hardware pushbutton reset. The table below clarifies the differences between them and describes the use for each.

Name	DSK	Use
Reset DSP Found in... Code Composer Debug menu	'C6211 or 'C6711	<i><u>Warning: Do not use this function with the DSK. It can corrupt breakpoints.</u></i> Initializes all register contents to their power-up state, reboots (HPI- or ROM-boot), and halts the execution of your program at 0x0. Use the GEL menu's Reset_BreakPts_and_EMIF function (see below) instead.
Restart Found in... Code Composer Debug menu	'C6211 or 'C6711	Restores the PC to the entry point for the currently loaded program. This command does not start program execution.
Reset_BreakPts_and_EMIF Found in... Code Composer GEL menu	'C6211 or 'C6711	<i><u>Warning: This will remove breakpoints before resetting the DSP. You must reload your code after using this GEL function.</u></i> Reset_BreakPts_and_EMIF() { GEL_BreakPtReset(); /* This function clears all software breakpoints. */ GEL_Reset(); /* This does the same thing as the Debug menu's Reset DSP command (see Reset DSP description above) */ init_emif(); /* Initializes the DSP for memories used on the DSK. */ }
dsk6x_reset_dsp Found in... DSK API (dsk6211.h)	'C6211 or 'C6711	Only resets the DSP via the parallel port controller.
dsk6x_reset_board Found in... DSK API (dsk6211.h)	'C6211 or 'C6711	Resets the digital signal processor (DSP) and test bus controller (TBC).
Pushbutton (HW) reset Found on DSK as SW2	'C6211	Resets the parallel port controller (PPC), test bus controller (TBC), digital signal processor (DSP), daughterboard (DB), and analog interface circuit (AIC).
	'C6711	Resets the digital signal processor (DSP), daughterboard (DB), and analog interface circuit (AIC).