PSP MODULE APIs

CFE_PSP_ModuleInit

Syntax	void CFE_PSP_ModuleInit(void)
Description	Initialize the included PSP modules This function initializes the include PSP modules.
Parameters	None
Returns	None
Notes	This function is an optional part of the PSP and some PSP implementations may not use it. Note 1: This function should only be called during PSP initialization before the system is operational. It is not intended to be called from application code after cFE has started. The function is not necessarily be thread-safe and should be called before any child threads are created. Note 2: This function does _not_ return any status. If a failure occurs during initialization that would make normal operation impossible, then the module itself will call CFE_PSP_Panic() and this will not return. Otherwise, benign/recoverable failures are expected to be just that, and the calling code will not need to take any special action either way. In short, if this function returns, then it means the system is good enough to continue.

CFE_PSP_Module_FindByName

Syntax	int32 CFE_PSP_Module_FindByName(const char *ModuleName, uint32 *PspModuleId)
Description	Obtain the module ID by name This function retrieves the module ID of the given module name.
Parameters	[in] ModuleName - Name of the module to look up [out] PspModuleId - Pointer to the variable that stores the returned module ID

Returns	CFE_PSP_SUCCESS CFE_PSP_INVALID_MODULE_NAME
Notes	Although this is currently prototyped as a function scoped to the PSP, this prototype could be moved to the public area so the cFS could use this.

CFE_PSP_Module_GetAPIEntry

Syntax	int32 CFE_PSP_Module_GetAPIEntry(uint32 PspModuleId, CFE_PSP_ModuleApi_t **API)
Description	Obtain the API for a specific module This function retrieves the API structure for a given module ID. This list should be generated by the build system based on the user-selected PSP
Parameters	[in] PspModuleId - The ID of the module (configuration-dependent) [out] API - Pointer to the variable that stores the returned API structure
Returns	CFE_PSP_SUCCESS CFE_PSP_INVALID_MODULE_ID
Notes	None