PPC Toolbox Parameter Blocks

PPC Toolbox functions require a pointer to a PPC parameter block. You must fill out any fields of the parameter block that the specific **PPC Toolbox** function requires.

The qLink, csCode, intUse, intUsePtr, and reserved fields of the PPCParamBlockRec are used internally by the **PPC Toolbox**. Your application should not rely on the **PPC Toolbox** to preserve these fields across calls.

Your application transfers ownership of the **PPC Toolbox** parameter block (and any buffers or records pointed to by the **PPC Toolbox** parameter block) to the **PPC Toolbox** until a PPC function is complete. Once the function completes, ownership of the parameter block (and any buffers or records it points to) is transferred back to your application. If a **PPC Toolbox** function is executed asynchronously, your program cannot alter memory that might be used by the **PPC Toolbox** until that function completes.

A **PPC Toolbox** function that is executed asynchronously must specify NIL or the address of a completion routine in the ioCompletion field of the PPC parameter block. The ioResult field should be used to determine the actual result code when an asynchronously executed **PPC Toolbox** function completes.

If you specify a completion routine in the ioCompletion field, it is called at interrupt time when the **PPC Toolbox** function completes execution.

Warning: Completion routines execute at the interrupt level and must preserve all registers other than A0, A1, and D0-D2. (Note that most commercial high-level languages do this automatically.) Your completion routine must not make any calls to the **Memory Manager**, directly or indirectly, and it can't depend on the validity of handles to unlocked blocks. The **PPC Toolbox** preserves the application global register A5.

You can write completion routines in C, Pascal, or assembly language. A completion routine declared in Think C is:

pascal void **MyCompletionRoutine** (PPCParamBlockPtr Pb);

The pb parameter points to the PPC parameter block passed to the **PPC Toolbox** function.