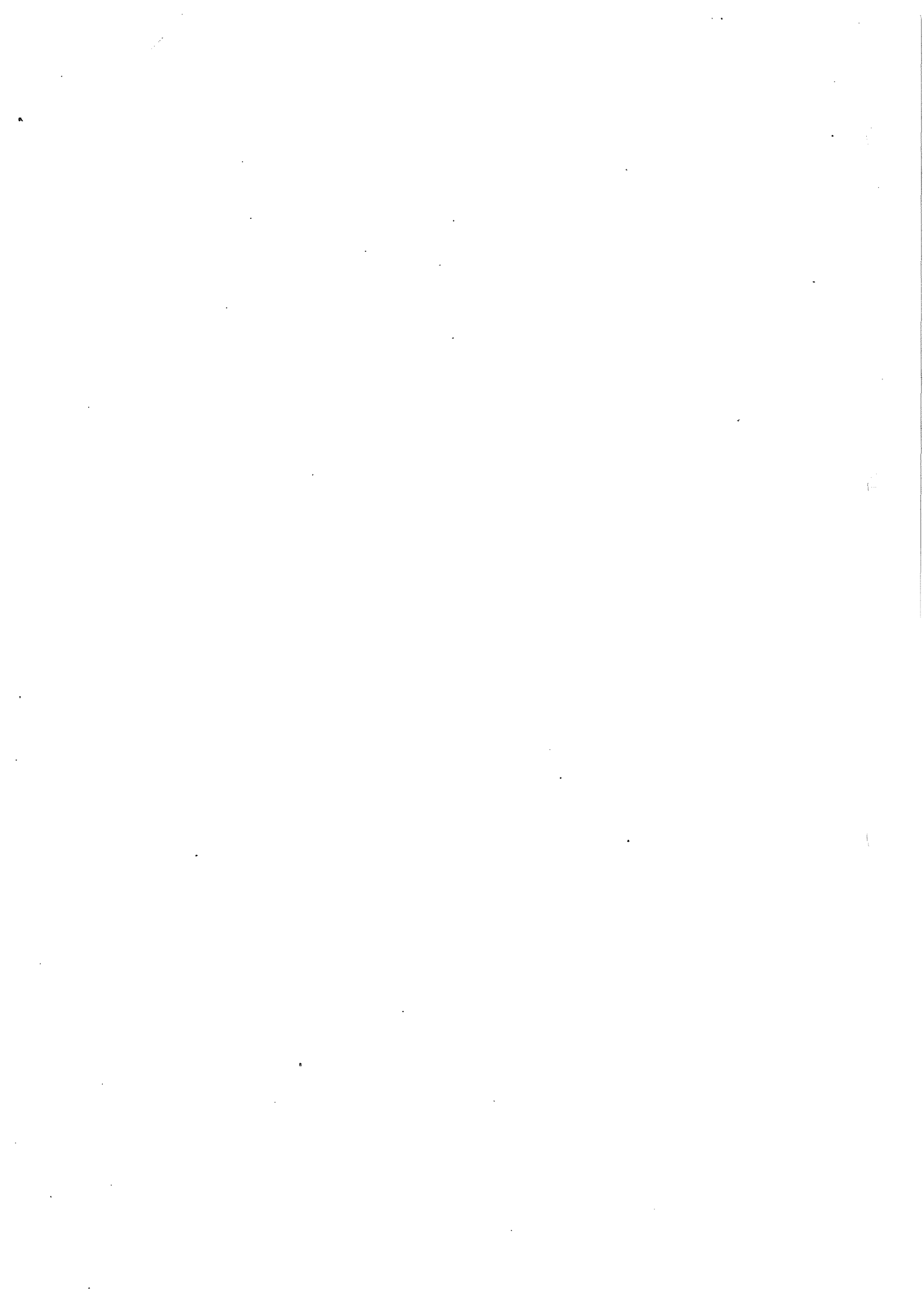


Chapter 12



Tool Locator



Introduction

The Tool Locator is the tool that allows tools and applications to communicate. As such, it represents a special case among the tool sets; you need to know about it only if you are considering writing your own tool set. You don't need to know about the Tool Locator if you are simply using the other Cortland tools that Apple provides.

Since writing your own tool set is a specialized use of the tools, we have secluded the information in Appendix A as a special subject. Please refer to that Appendix for more information.

Table X.X - Tool Locator Routines and Their Functions

Standard Housekeeping Routines

TLBootInit	Initializes the Tool Locator and all other ROM-based Tool Sets.
TLStartUp	Standard Tool call. Not used in this tool set.
TLShutDown	Standard Tool call. Not used in this tool set.
TLVersion	Returns the version of the Tool Locator.
TLReset	Calls the reset routine of every tool set in the system.
TLSpare1	Reserved for future use.
TLSpare2	Reserved for future use.
TLSpare3	Reserved for future use.

Tool Locator Routines

GetTsPtr	Returns pointer to the Function Pointer Table of the specified tool set.
SetTSPtr	Installs the pointer to a Function Pointer Table in the appropriate Tool Pointer Table.
GetFuncPtr	Returns pointer to the specified function in the specified Tool Set.
GetWAP	Gets the pointer to the work area for the specified module.
SetWAP	Sets the pointer to the work area for the specified module.

BootInit

Initializes the Tool Locator and all other ROM-based Tool Sets.

Stack & Parameter Definition

Stack Before and After Call

Call does not affect the stack.

Stack & Parameter Definition

Stack Before and After Call

Call does not affect the stack.

C

Call must not be made from an application.

Pascal

Call must not be made from an application.

TLStartUp

Starts up the Tool Locator when an application starts up. Every application must make this call before the application makes any other tool calls.

Stack & Parameter Definition

Stack Before and After Call

Call does not affect the stack.

C

Pascal

TLShutDown

Shuts down the Tool Locator when an application shuts down. Every application must make this call just before the application quits.

Stack & Parameter Definition

Stack Before and After Call

Call does not affect the stack.

C

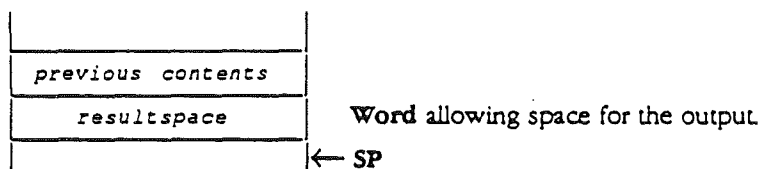
Pascal

TLVersion

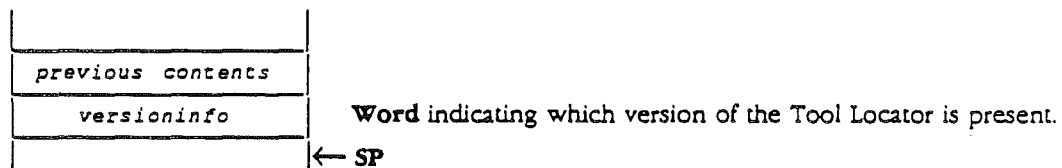
Returns the version of the Tool Locator.

Stack & Parameter Definition

Stack Before Call



Stack After Call



TLReset

Initializes the Tool Locator and all other ROM-based Tool Sets upon system reset.

Stack & Parameter Definition

Stack Before and After Call

Call does not affect the stack.

Stack & Parameter Definition

Stack Before and After Call

Call does not affect the stack.

C

Call must not be made from an application.

Pascal

Call must not be made from an application.

GetTsPtr

Returns pointer to the Function Pointer Table of the specified tool set.

Stack & Parameter Definition

Stack Before Call

<i>previous contents</i>	
<i>systemoruser</i>	Word specifying the tool as either a system (\$0000) or user (\$8000) tool.
<i>TSNumber</i>	Word specifying tool set number of the tool set whose pointer is returned.
	← SP

Stack After Call

<i>previous contents</i>	
<i>FPTptr</i>	Pointer to the Function Pointer Table of the tool set.
	← SP

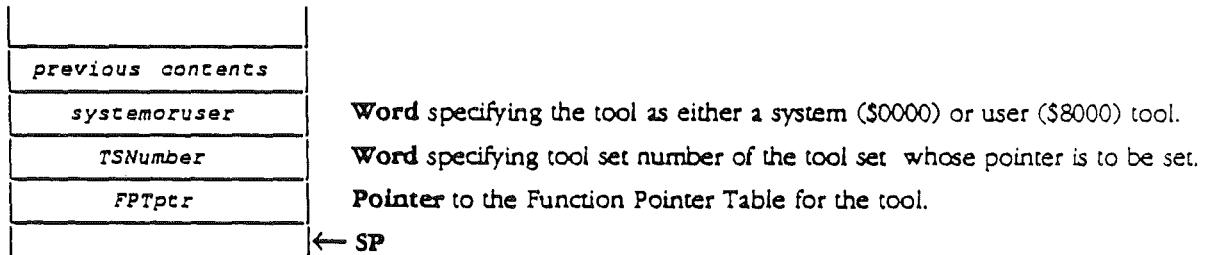
SetTSPtr

Installs the pointer to a Function Pointer Table in the appropriate Tool Pointer Table (TPT). If the TPT is not yet in RAM, the routine copies the TPT to RAM. (Memory for the TPT is obtained from the Memory Manager.) If there is not enough room in the TPT for the new entry, the TPT is moved to a bigger chunk of memory. Likewise, the WAPT table is expanded if necessary (memory for the expansions is obtained from the Memory Manager). If the new pointer table has any zero entries, old entries are moved from the old pointer table to the new pointer table.

The call can be used to patch a portion of a Tool Set, rather than replacing the Tool Set entirely.

Stack & Parameter Definition

Stack Before Call



Stack After Call

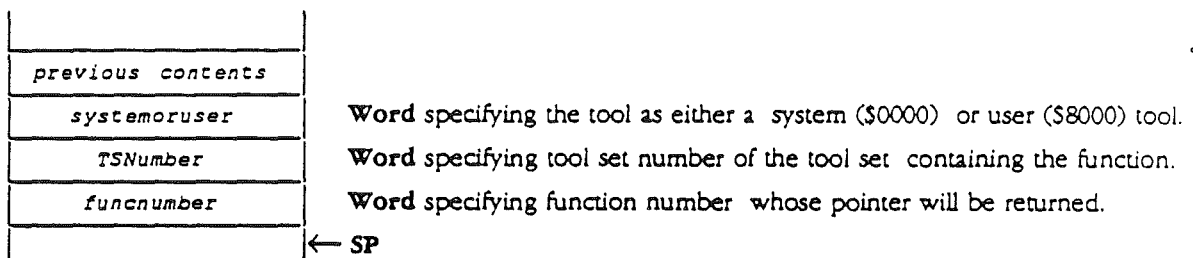


GetFuncPtr

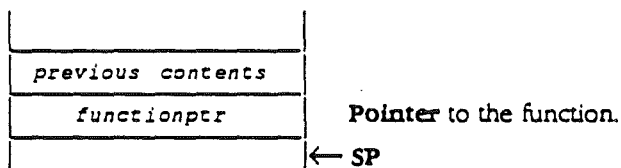
Returns pointer to the specified function in the specified Tool Set.

Stack & Parameter Definition

Stack Before Call



Stack After Call



GetWAP

Gets the pointer to the work area for the specified tool set.

Stack & Parameter Definition

Stack Before Call

<i>previous contents</i>	
<i>systemoruser</i>	Word specifying the tool as either a system (\$0000) or user (\$8000) tool.
<i>TSNumber</i>	Word specifying tool set number whose work area pointer will be returned.
	← SP

Stack After Call

<i>previous contents</i>	
<i>FPTptr</i>	Pointer to the work area of the tool set.
	← SP

SetWAP

Sets the pointer to the work area for the specified tool set.

Stack & Parameter Definition

Stack Before Call

<i>previous contents</i>
<i>systemoruser</i>
<i>TSNumber</i>
<i>FPTptr</i>

Word specifying the tool as either a system (\$0000) or user (\$8000) tool.

Word specifying tool set number whose work area pointer will be set.

Pointer specifying the pointer to the work area of the tool set.

← SP

Stack After Call

<i>previous contents</i>

← SP

