

TACL Programming I for NonStop Servers U8636S

This course teaches you the basics of writing support utilities in the Tandem Advanced Command Language (TACL). Through hands-on exercises, you will gain valuable experience in using the fundamental features of TACL programming. After completing this course, you will be able to write TACL macros and routines, use the TACL debugging facility, and write TACL code to interact with and control NonStop Server processes using the Inline facility.

Audience

• System programmers

Prerequisites

• Concepts and Facilities or familiarity with NonStop utility

Course objectives

At the conclusion of this course you should be able to:

• Write system management utility programs by learning to use the fundamental features of the TACL language

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HPE course number

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Detailed course outline

Module 0 Overview	Course objective	• Schedule
Module 1 Overview of TACL Features	TACL as a command interpreter	Productivity tools and information aids
Module 2 TACL VariablesT	 Obtaining information about variables using either commands or built-ins 	Lab exercise (30 minutes): Learn and understand how to logon and use defined function keys
	 Using commands or built-in functions to create, initialize, modify, and eliminate variables 	Practice using TACL interactively
	• The use of "frames" and variable management	
Module 3 Editing Variables	Performing variable file I/O	Locating the position of a string within a variable
	Performing global editing of a variable	Extracting lines and characters from a variable
	Performing line editing of a variable	Lab exercise (1 hour): Exercising variable editing
	Performing character editing of a variable	
Module 4 Writing Functions: Macros	Macro functionality and syntax	Writing macros
	Parameter substitution	Using nested macros
		Lab exercise (30 minutes): Write a simple TACL macro
Module 5 Writing Functions: #IF	Write functions that use the TACL #IF THEN ELSE construct	Using #IF NOT
	Making string comparisons	Lab exercise (1 hour): Write a macro that accepts one or more arguments and uses #IF
Module 6 Writing Functions: #LOOP	Using the #LOOP [DO] [UNTIL] construct	Lab exercise (1 hour):Write a macro that uses a #1 OOD construct
	Using the #LOOP WHILE DO construct	#LOOP CONSTRUCT
Module 7 Writing Functions: #CASE	Syntax and use of the #CASE construct	
Module 8 Debugging TACL Functions	 Using the TACL debugging facility to aid in getting function to work properly 	s • Set and clear breakpoints
	 Lab exercise (2 hours): 	 Display and modify the contents of a variable
	Start and stop the debugger	Single step through functions and resume execution
		• Write a function that makes use of the #CASE built-in

Module 9 Writing Functions: Routines	Writing "Routine" type functions; using #ARGUMENT, #MORE AND #REST	Describe the use of the built-ins: #MYSYSTEM #PROCESSORSTATUS, and #PROCESSORTYPE
	 Describe the additional capabilities that routines offer that macros do not 	 Lab exercise (2 hours): Modify TACL programs to use routine type functions
Module 10 INLINE Processing	Performing process I/O using the INLINE facility	Lab exercise (1 hour)
	 Controlling the display of process output Describe the use of #INLINEPREFIX, INLPREFIX, #INLINETO, and INLTO 	 Use the INLINE facility to interface with the PERUSE utility
Onsite-Delivery Equipment Requirements	NonStop operating system D30 or later for NonStop K-series servers, or any Gxx version for NonStop S-series servers	Pathway/TS (version D30 or later), NonStop TMF

Learn more at <u>hpe.com/ww/learnNonStop</u>

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