Article <u>Mike Kadow</u> · Aug 9, 2016 4m read

NewBie's Corner Session 15 Executing Routines and Labels

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Welcome to NewBie's Corner, a weekly or biweekly post covering basic Caché Material.

Routines and Labels

Routines are computer programs with a number of executable code lines.

Labels (also called tags) are points in a routine that can be called (executed). They subdivide routines into manageable modules (or subroutines).

Routines, Subroutines/Modules and Functions

- Routines are the name that COS calls computer programs
- Subroutines and Modules are subsections within a Routine that start with a Label Line and end with a Quit command
- Functions are the same as Subroutines but Functions always return a value

Executing Routines

ROUTINEA		; name of the routine on the first line
	Do ^ROUTINEB	; execution jumps to ^ROUTINEB
		; when ROUTINEB ends, execution comes back here
	Quit	; exit the routine

This example shows ROUTINEA, identified by the routine name on the first line. When the Do command "Do ^ROUTINEB" is encountered, execution jumps to ROUTINEB. The Caret (^) before ROUTINEB signifies that ROUTINEB is a separate routine. If no Caret (^) is found on the Do command, execution jumps to a Label inside the current routine.

Executing a Label in a Routine

ROUTINEA

;
Do PROC ; code
;code
;code
Quit

PROC ; Label
;code
Quit ; execution jumps back to the line following "Do PROC"

In the above example, when the line "Do PROC" is encountered, execution jumps to the PROC Label and continues until it reaches the Quit command. At the Quit, execution jumps back to the line following "Do PROC".

Executing a Label in another Routine

ROUTINEA	; Routine ROUTINEA
;	
Do PR	OC^ROUTINEB ; execution jumps to PROC in ^ROUTINEB
; code	
Quit	
ROUTINEB	; Routine ROUTINEB
;	
PROC	
; code	
Quit	; execution jumps to the line following PROC in ^ROUTINEA

This example shows two separate routines, ROUTINEA and ROUTINEB. In ROUTINEA, when the line "Do PROC^ROUTINEB" is encountered, execution jumps to the PROC label inside ROUTINEB. When the Quit command under PROC^ROUTINEB is reached, execution jumps to the line following "Do PROC^ROUTINEB" in ROUTINEA

--Mike Kadow

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<u>#Caché</u>

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