

## Chapter IV-4 — Macros

### Body Code

The local variable declarations are followed by the body code. This table shows what can appear in body code of a macro.

What	Allowed in Macros?	Comments
Assignment statements	Yes	Includes wave, variable and string assignments.
Built-in operations	Yes	
External operations	Yes	
External functions	Yes	
Calls to user functions	Yes	
Calls to macros	Yes	
if-else-endif	Yes	
if-elseif-endif	No	
switch-case-endswitch	No	
strswitch-case-endswitch	No	
try-catch-endtry	No	
structures	No	
do-while	Yes	
for-endfor	No	
Comments	Yes	Comments start with //.
break	Yes	Used in loop statements.
continue	No	
default	No	
return	Yes, but with no return value.	

### Conditional Statements in Macros

The conditional if-else-endif statement is allowed in macros. It works the same as in functions. See **If-Else-Endif** on page IV-40.

### Loops in Macros

The do-while loop is supported in macros. It works the same as in functions. See **Do-While Loop** on page IV-45.

### Return Statement in Macros

The return keyword immediately stops executing the current macro. If it was called by another macro, control returns to the calling macro.

A macro has no return value so return is used just to prematurely quit the macro. Most macros will have no return statement.

### Invoking Macros

There are several ways to invoke a macro:

- From the command line