Structures, including substructures, can be copied using simple assignment from one structure to the other. The source and destination structures must defined using the same structure name.

The **Print** operation can print individual elements of a structure or can print a summary of the entire STRUCT variable.

Structure Example

Here is a contrived example using structures. Try executing `foo(2)`:

```
Constant kCaSize = 5

Structure substruct
   Variable v1
   Variable v2
EndStructure

Structure mystruct
   Variable var1
   Variable var2[10]
   String s1
   WAVE fred
   NVAR globVar1
   SVAR globStr1
   FUNCREF myDefaultFunc afunc
   STRUCT substruct ss1[3]
   char ca[kCaSize+1]
EndStructure

Function foo(n)
   Variable n

   Make/O/N=20 fred
   Variable/G globVar1 = 111
   String/G aGlobStr="a global string var"

   STRUCT mystruct ms
   ms.var1 = 11
   ms.var2[n] = 22
   ms.s1 = "string s1"
   WAVE ms.fred     // could have =name if want other than waves named fred
   NVAR ms.globVar1
   SVAR ms.globStr1 = aGlobStr
   FUNCREF myDefaultFunc ms.afunc = anotherfunc
   ms.ss1[n].v1 = ms.var1/2
   ms.ss1[0] = ms.ss1[n]
   ms.ca = "0123456789"
   bar(ms,n)
   Print ms.var1,ms.var2[n],ms.s1,ms.globVar1,ms.globStr1,ms.ss1[n].v1
   Print ms.ss 1[n].v2,ms.ca,ms.afunc()
   Print "a whole wave",ms.fred
   Print "the whole ms struct:",ms

   STRUCT substruct ss
   ss = ms.ss1[n]
   Print "copy of substruct",ss
End

Function bar(s,n)
   STRUCT mystruct &s
   Variable n

   s.ss1[n].v2 = 99
   s.fred = sin(x)
   Display s.fred
End

Function myDefaultFunc()
   return 1
End

Function anotherfunc()
   return 2
End
```