Subject: Help with CALL_EXTERNAL under HP Unix
Posted by Tim Patterson on Tue, 11 Jun 1996 07:00:00 GMT

I am writing a tool in IDL that has to run under a number of
different unix flavours and has to call up some external
Fortran routines via C wrappers.

I have the code wroking on OSF and Sun OS, and am porting it onto
an HP machine running HP-UX 9.05. (I only have remote access to this
machine).

I want to be able to use the same set of C Wrappers, and so I have
been using the +z option ot compile the code, to get Sun-like
object names with an appended underscore e.g. myroutine_

Unfortunately, when I try to call up these routines in the
same way that i do on the SunOS machine, I get dumped
out of IDL with the following error:

  Signal 11: segmentation violation

 PROCEDURE TRACEBACK:

 (0) 0x0001c510   fpset_freg_dp + 0xeb40
[/usr/local/rsi/idl_4/bin/bin.hp/idl]
 (1) 0x80ca45d0   I_10 + 0x80ca45d1
[/usr/local/rsi/idl_4/bin/bin.hp/idl]
 Stack_Trace: error while unwinding stack

No core dump though.

Can anybody spot what I'm doing wrong? What is strange is that
the same procedure appears to have worked previously on another
HP machine. I know there are differences between different
version of HP Unix about whether the underscore gets appended.
Could that be the problem here?

 Thanks for any help

 Tim