
Subject: Problem addressing arrays from C routines running OSF
Posted by [Stubbe Faurschou Hvii](#) on Tue, 30 Jan 1996 08:00:00 GMT
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I am writing a program which have to access some routines written in C. These routines

have the form somewhat like this:

---- C ----

```
int routine(int argc, void *argv[])
{
  short *ptr = (short *)argv[0];

  // do som operations on the array addressed using <ptr>

  return TRUE;
}
```

---- IDL ----

```
; array = intarr(512, 512);
function routine, array
  return, call_external('routine.so', 'routine', array)
end
```

This method of addressing an array works under Solaris, SGI Irix and Windows but not under OSF/1 on a DEC alpha workstation.

I think that the problem is that IDL tries to send a 32 bit pointer, and the C program expects a 64 bit pointer (a good way to create chaos :-))

Any suggestions on how to solve this problem?


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