Subject: Call_External - memory problems?
Posted by gtg386d on Mon, 10 May 2004 06:39:21 GMT
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I had a very slow script that I have sped up considerably by writing a c program and using call_external. this does what i want it to, but... it executes in a loop, which also has a findfile command. previous to using call_external, this worked. now it gives me the error:

```
% FINDFILE: Error managing child process.
  Resource temporarily unavailable
% Execution halted at:  $MAIN$          177
  /scratch/jon/trmm/check_sunrise.pro
```

appearing after a few loops. i have also tried the modified find_file.pro.

from what i've been able to find, i am guessing that i have exceeded memory allocation or some such. since the program ran prior to using call_external, and all relevant changes are there, i am inclined to look there first. any ideas? common pitfalls i might have stumbled into? none of the initialized data types are growing in size, it seems like it must come from repeated function access... the release is idl 5.4 on an SGI Origin. hopefully all relevant pieces of code below...

this line in my idl procedure:

```
s = call_external('coll.so','coll', $
                  long(nscan), $
                  geolocation, $
                  long(correctzfactor), $
                  latitude(c,d), $
                  longitude(c,d), $
                  convect)
```

calls this function:

```
void coll(int argc,void **argv)
{
  int i, j, k;
  float dlat, dlon, z;
  int nscan = *(int *) argv[0];
  int swath = 49;
  int lev = 80;
  float (*geolocation)[nscan][swath][2] = argv[1];
  int (*correctzfactor)[nscan][swath][lev] = argv[2];
  float lat = *(float *) argv[3];
  float lon = *(float *) argv[4];
```

```
float (*convect)[2] = argv[5];
```