

---

Subject: Re: openr and /get\_lun  
Posted by [mallors](#) on Mon, 17 Apr 2000 07:00:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

In article <on66tghxl.fsf@cow.physics.wisc.edu>,  
Craig Markwardt <craigmnet@cow.physics.wisc.edu> writes:  
>  
> I totally agree that the error condition must be handled. What I was  
> getting at is that OPENR, ..., /GET\_LUN does two things: allocate a  
> LUN, and open a file. If you get an ERROR condition back, it's  
> impossible to know which of these two things failed. In fact in the  
> above example you gave, the unit FL may be undefined, so FREE\_LUN will  
> fail.

You can tell which of these things failed based on the  
name of the error that is returned in the !ERROR\_STATE  
structure. The documentation states that although the  
error code number (a negative integer) can change across IDL  
sessions, the error name cannot.

```
;;= The program TEST.PRO tries to open many files,  
;;= each with a different unit number, and stops  
;;= if there is an error
```

```
IDL> .RUN TEST  
% Stop encountered: $MAIN$  
IDL> PRINT, error  
-234  
IDL> HELP, !ERROR_STATE.NAME  
<Expression>  STRING  = 'IDL_M_FILE_NOLUNLEFT'  
IDL> PRINT, !ERROR_STATE.MSG  
OPENW: All available logical units are currently in use.  
IDL>  
IDL> CLOSE, /ALL  
IDL>  
IDL> OPENR, fl, 'nofile', /GET_LUN, ERROR = error  
IDL> PRINT, error  
-222  
IDL> PRINT, !ERROR_STATE.NAME  
<Expression>  STRING  = 'IDL_M_CNTOPNFIL'  
IDL> PRINT, !ERROR_STATE.MSG  
OPENR: Error opening file. Unit: 100, File: nofile
```

Regards,

-bob

--

~~~~~  
Robert S. Mallozzi 256-544-0887  
Mail Code SD 50  
http://gammaray.msfc.nasa.gov/ Marshall Space Flight Center  
http://cspar.uah.edu/~mallozzir/ Huntsville, AL 35812  
~~~~~

---