Subject: Re: IDL batch mode: Command line args?
Posted by nospam on Wed, 01 Apr 1998 08:00:00 GMT

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In article <mgs-3103981949020001@sc9-14-46.thegrid.net> mgs@sd.cybernex.net (Mike Schienle) writes:

> Here's a variation along those lines. You could set the environment
> variable IDL_STARTUP to point to different batch programs, then call IDL.
> This would start IDL and run the batch file pointed to by IDL_STARTUP.
> Similarly, you could keep IDL_STARTUP pointing to the same file, but
> create that file using your UNIX program (shell, perl, etc.). Get the help
> of your local UNIX shell programming fanatic and you might end up with
> something pretty entertaining. I was doing stuff like this a couple years
> back. I could dig up some ideas from those efforts if you're interested.
> ...

I think it is better to use perl (or sh) with IDL to do this. The
nicest way is like this:

```
#!/usr/local/bin/perl -w

open(IDL, "|/usr/local/bin/rsi/idl/bin/idl") ||
 die "Can't open IDL: $!";
$\="\n";

print IDL "var1 = $ARGV[0]";
print IDL "var2 = $ARGV[1]";

print IDL "doit_procedure, var1, var2";

##etc.  You can loop over filenames:

foreach $filename (glob(*)){
 print IDL "process_file, '$filename'";
}

print IDL "exit";
```

I've also written perl scripts that create long IDL scripts that I can
then check over and run, for example to convert a bunch of BMP files
to several files of raw 3D data:

```
#!/usr/sbin/perl -w

$\ = "\n";
```

```
$outdir = "/data1/stuarts/calsim/spatial/surrogate1/";
$indir = "/data1/eo1/jam/";

print "get_lun, F";
foreach $suff (qw(1 b c d e f g h i j k l m n o p q r s t u)){

    $outfilename = $outdir . "data" . $suff;
    print "openw, F, '$outfilename'";

    for ($x = 0; $x < 200; $x++){
        $filename = $indir . "data" . $suff . $x . ".bmp";
        if (-f $filename){
            print "frame = read_bmp('$filename')";
            print "writeu, F, frame";
        } else {
            die "$filename not found\n";
        }
    }
    print "close, F";
}
print "free_lun, F";
print, "end";
```

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