
Subject: Re: Is there a way to use C++ code in IDL
Posted by [Rick Towler](#) on Thu, 20 Feb 2003 20:07:38 GMT
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Here is a pile of bad code for you :)

I wrote a file parser for some home grown tagged data files we have around here. This is the gist of it altered for your file format. It is ugly but should get you well on your way.

I still think you should do this as a dlm but this exercise will be a good intro to IDL. Note that I have left a lot out and I make no claims that this is the way anyone should do this.

Enjoy.

-Rick

```
datasets = "  
nsets = 0
```

```
;read in the batch file  
openr, lun, filename, /get_lun
```

```
while not eof(lun) do begin  
  line = "  
  readf, lun, line
```

```
;remove comments and whitespace  
temp = strsplit(line, '//', /extract)  
line = strtrim(temp[0],2)
```

```
;check if this is a datablock tag  
dblock = strsplit(line, ':', /extract)
```

```
if (N_ELEMENTS(dblock eq 1) then begin  
  ;not a datablock tag  
  case line of
```

```
    '[System]':begin
```

```
      while (line ne '[End]') do begin
```

```
        line=""  
        readf, lun, line
```

```
      ;remove comments and whitespace
```

```

temp = strsplit(line, '//', /extract)
line = strtrim(temp[0],2)

;parse the line of text for the keyword/param pair
kwpair = strsplit(strcompress(line, /remove_all), $
    '=', /extract)
keyword = kwpair[0]

case keyword of
    'Name':name = FIX(kwpair[1])
    else: ;skip everything else
endcase
endwhile
end

'[Data Sets]':begin
    while (line ne '[End]') do begin

        line=""
        readf, lun, line

        ;remove comments and whitespace
        line = strtrim((strsplit(line, '//', /extract))[0],2)

        datasets = [datasets,line]
        nsets = nsets + 1
    endwhile
end

'[File Attributes]':begin

    while (line ne '[End]') do begin

        line=""
        readf, lun, line

        ;remove comments and whitespace
        line = strtrim((strsplit(line, '//', /extract))[0],2)

        case line of
            '[Conditions File]':begin
                while (line ne '[End]') do begin
                    line=""
                    readf, lun, line

                    ;remove comments and whitespace
                    line = strtrim((strsplit(line, '//', $
                        /extract))[0],2)

```

```

        case line of
            '[Properties]':begin
                while (line ne '[End]') do begin
                    line=""
                    readf, lun, line

                    ;remove comments and whitespace
                    line = strtrim((strsplit(line,

'//', $

                        /extract))[0],2)

                    ;process keyword/data pairs

                endwhile
            end
            '[Frame Information]':begin

                end
            endcase
        endwhile
    end
    '[Saved File]':begin

        end
        else;;skip everything else

    endcase
endwhile
end

        else;;ignore everything else
    endcase

endif else begin
    ;This is a datablock tag

    ;dblock[1] will be the dataset label

endelse

endwhile

free_lun, lun

```
