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; small test program to detect system routines in user code
; Martin Schultz, 14 Jan 2000
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pro create_routines
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; will search for all system procedures and functions and store them
; as IDL_ROUTINES-<release>
listname = 'IDL_ROUTINES-'+!version.release
open_file,listname,llun,/WRITE
if llun le 0 then begin
  message,'Cannot open output file '+listname,/Continue
  return
endif

printf,llun,'# list of internal procedures and functions in IDL ' + $
  !version.release
printf,llun,'# obtained with routine_info(/SYSTEM [,/FUNCTIONS])'
printf,llun,['PROCEDURES]'
n = routine_info(/SYSTEM)
for i=0L,n_elements(n)-1 do printf,llun,n[i]
printf,llun,['FUNCTIONS]'
n = routine_info(/SYSTEM,/FUNCTIONS)
for i=0L,n_elements(n)-1 do printf,llun,n[i]
free_lun,llun

print,'Done.'
return
end
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pro routines,filename
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MAXNAMES = 2000
pnames = strarr(MAXNAMES)
fnames = strarr(MAXNAMES)

; get list of IDL routines and functions first
listname = 'IDL_ROUTINES-'+!version.release
open_file,listname,llun
if llun le 0 then begin
  message,'Cannot open routine list '+listname,/Continue
  return
endif

np = 0L
nf = 0L
s = "
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state = 0 ; 1 = proc, 2 = func
while (not eof(llun) AND np lt MAXNAMES $
      AND nf lt MAXNAMES) do begin
  readf,llun,s
  s = strtrim(s,2)
  if s eq '[PROCEDURES]' then state=1
  if s eq '[FUNCTIONS]' then state=2
  if strpos('#!',strmid(s,0,1) ) lt 0 then begin
    case state of
      1 : begin
        pnames[np] = s
        np = np + 1
        end
      2 : begin
        fnames[nf] = s
        nf = nf + 1
        end
      else :
        endcase
    endif
  endwhile
  free_lun,llun
  pnames = pnames[0:np-1]
  fnames = fnames[0:nf-1]
  help,pnames,fnames

  open_file,filename,ilun

  if ilun le 0 then return

  s = "
  while not eof(ilun) do begin
    readf,ilun,s
    ; trim blanks for procedure names always start on new line
    s = strcompress(s,/remove_all)
    ; look for name of procedure [perhaps followed by ',']
    test = strupcase( (str_sep(s,','))[0] )
    found = where(pnames eq test)
    if found[0] ge 0 then print,'** found ',pnames[found[0]] $
    else begin
      ; look for function after '=' (assuming there is no line break)
      ; make sure it's not commented out
      p = strpos(s,'=')
      pc = strpos(s,';')
      if (p gt 0 AND p gt pc) then begin
        p1 = strpos(s,'(',p+1)
        if p1 ge p then begin

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        test = strupcase(strmid(s,p+1,p1-p-1))
; print,test
        found = where(fnames eq test)
        if found[0] ge 0 then print,'## found ',fnames[found[0]]
        endif ; else could be a '$' or ';' following ...
    endif
endelse

endwhile

free_lun,ilun

return
end
```

File Attachments

1) [routines.pro](#), downloaded 99 times
