Subject: Can this be solved in a better way?
Posted by Ingo Salzmann on Thu, 12 Dec 2002 09:59:17 GMT
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Hi!
I am developing software for x-ray diffraction pole figure analysis in order
to simulate the position of the peaks in the pole figures. Therefore I'm
often concerned with arrays like 'allindices_local' generated by this
function below. Its dimension is always different and there are if..then
conditions during the array construction. Meanwhile the whole stuff works
fine, but I'm sure that I could have optimized many things using IDL array
orerations...
Maybe you could give me a hint how to optimize a code like the one below ...
in front of all the way to concentrate arrays seems to me a bit quick'n
dirty ;-)
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```
FUNCTION AutoGenerateHKL, info

i = info.crystaltrigger - 1 ; is just an integer
dummy = 0
 FOR h = info.hmin[i],info.hmax[i] DO BEGIN
  FOR k = info.kmin[i],info.kmax[i] DO BEGIN
   FOR l = info.lmin[i],info.lmax[i] DO BEGIN
    IF (dummy EQ 0) THEN BEGIN
     dummy = 1
     allindices_local =
 [info.hmin[i],info.kmin[i],info.lmin[i],1,info.higherharm[i] ]
    ENDIF ELSE BEGIN
     IF (NOT((h EQ 0) AND (k EQ 0) AND (l EQ 0))) THEN allindices_local =
[[allindices_local], [h,k,l,1,info.higherharm[i]]]
    ENDELSE
   ENDFOR
  ENDFOR
 ENDFOR
RETURN, allindices_local
END
```

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Thanx for your effort
Regards,
Ingo

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