PARAMETERIZED "DO" FILES

IDKICDT UNITE 2019

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A USEFUL SET OF DO FILES

- Sometimes you want to search for files with certain names or attributes across all of your pack families.

- But you don't want to enter a separate command for each family name; in fact you don't even want to enter the family names. You just want to enter one command.
  - Perhaps you want to find all of the files for a particular usercode.
  - Perhaps you want to find all of your DO files.
  - Perhaps you want to find all of the privileged code files on your system.
  - Perhaps you want to find the files that need to recompiled prior to upgrading your system.

THE DO FILE TO BE EXECUTED

```
#FILE (DDOBSON)DO/FIND/ANYWHERE/PDIR ON WORK

1000 PARAMETERS (WILDCARD

1100         ,PKNAME

1200         ,SPECS

1300         ,PREFIX

1400         ,OFMT):SUBCHAR $

1500 CONT=~;

2000 U *SYSTEM/PDIR $WILDCARD$ ON $PKNAME$ ~

2500     $SPECS$ ~

3000    :$OFMT$ $PREFIX$/$PKNAME$

#
```

- Here is the DO file we ultimately want to run.

- It has several parameters that will de delimited by the SUBCHAR "$"
  - The default SUBCHAR is "#"

- Each parameter can be up to 63 chars in length.

- A matching pair of $ says "put the contents of the parameter here.

- I find it a good practice to explicitly set my CONTinuation character inside each DO file.

- In lines 2000-3000 we will execute the *SYSTEM/PDIR utility.
  - For more information on the FILES command and the PDIR utility reference the original IDKICDT presentation that I gave here in 2005 http://www.goldeyesoftware.com/presents.php

- When expanded the command will be similar to:
  U *SYSTEM/PDIR DO/= ON PACK SHOW NAME :FILE FOUND/PACK

- This will be done for each pack.

BUT

"But Doug" you cry "You told us we'd only have to enter one command and we wouldn't have to enter packnames".

OK. Let's work on that.

SETUP FILE PART 1

```
LE (DDOBSON)DO/FIND/ANYWHERE/SETUP ON WORK

 PARAMETERS (OFMT DEFAULT="FILE") : SUBCHAR $

 CONT=~;



 U *SYSTEM/PUNIT SELECT KINDNAME=PK,  FAMILYINDEX=1 ~

     SHOW NAME ~

    :FILE DO/FIND/ANYWHERE/$OFMT$

```

- DO this SETUP file once

- It runs *SYSTEM/PUNIT to create a file containing a list of the packs on your system. The file name is DO/FIND/ANYWHERE/<OFMT>.

- Note that the default for OFMT is "FILE"

  - This could also be CSV, TABBED, WFL or PRINTER

INITIAL CONTENTS OF DO/FIND/ANYWHERE/FILE

#FILE (DOBSOD)DO/FIND/ANYWHERE/FILE ON WORK

10 Name

20 DISK

30 WORK561

40 TEMP

50 SOURCE

60 WORK

70 AUDITPACK1

80 DISK571

90 PREVDISK

- This is what that file looks like

DO/FIND/ANYWHERE/SETUP – PART 2

#FILE (DDOBSON)DO/FIND/ANYWHERE/SETUP

1700 G DO/FIND/ANYWHERE/$OFMT$;

1800 10 PARAMETERS (WC DEFAULT="DO/="

1900 11   ,SPC DEFAULT ="SHOW NAME"

2000 12   ,PRF DEFAULT="FOUND"

2100 13   ,FMT DEFAULT="$OFMT$") :SUBCHAR #

- Next the SETUP file GETs the list of names and edits it by replacing line 10 and adding lines 11,12,13 to specify that it has parameters.

- Note that we set defaults for SPC(PDIR specs), PRF (Prefix for output file names), and $OFMT$ will be replaced by "FILE".

- The SUBCHAR for the edited file will be "#"

DO/FIND/ANYWHERE/SETUP – PART 3

2300 REP COL 19 '","#SPC#","#PRF#","#FMT#")' 20-END :T

2400 REP COL 1 'DO DO/FIND/ANYWHERE/PDIR("#WC#","' 20-END :T

2500 SAVE

2600 REM

- For lines 20-end we place the contents of SPC, PRF and FMT after the pack name at column 19.

- Then place DO DO/FIND/ANYWHERE/PDIR("#WC# ", " before the name at column 1

- Then SAVE and release the file

THE EDITED FILE

#FILE (DDOBSON)DO/FIND/ANYWHERE/FILE ON WORK

10 PARAMETERS (WC DEFAULT="DO/="

11   ,SPC DEFAULT ="SHOW NAME"

12   ,PRF DEFAULT="FOUND"

13   ,FMT DEFAULT="FILE") :SUBCHAR #

20 DO DO/FIND/ANYWHERE/PDIR("#WC#","DISK
","#SPC#","#PRF#","#FMT#")

30 DO DO/FIND/ANYWHERE/PDIR("#WC#","WORK561
","#SPC#","#PRF#","#FMT#")

40 DO DO/FIND/ANYWHERE/PDIR("#WC#","TEMP
","#SPC#","#PRF#","#FMT#")

- Now we have a DO file that we can run with whatever parameters we like.

USAGE

DO DO/FIND/ANYWHERE/FILE("*=","SELECT PU = TRUE","PUFILES",)

Output:

DO DO/FIND/ANYWHERE/PDIR("*=","PREVDISK   ","SELECT PU = TRUE","PUFILES" ,"FILE")
#FILE (DDOBSON)DO/FIND/ANYWHERE/PDIR ON WORK
PARAMETERS (WILDCARD
     ,PKNAME
     ,SPECS
     ,PREFIX
     ,OFMT):SUBCHAR $
#
CONT=~;
#CONTINUATION CHARACTER = ~
U *SYSTEM/PDIR *= ON PREVDISK   ~
   SELECT PU = TRUE ~
  :FILE PUFILES/PREVDISK
#RUNNING 3454
#ET=10.6 PT=6.2 IO=0.6

- Let's look for PU files

- Put the output in files named PUFILES/<packname>

FILES CREATED

FILES PUFILES

(DDOBSON) ON WORK

. PUFILES

. . DISK : JOB

. . WORK : JOB

. . DISK571 : JOB

. . WORK561 : JOB

. . PREVDISK : JOB

#

- Look we have new files

FILES CONTENTS

```
LIST PUFILES/DISK

#FILE (DDOBSON)PUFILES/DISK ON WORK

10 Name                      Filekind    Sectors LastaccessDate

20 *LOCUM/SAFELIB            DCALGOLCODE 14148   03/01/2013

30 *LOCUM/SOCKETLIB          DCALGOLCODE 576     03/01/2013

40 *LOCUM/SAFESURVEY/HOST    DCALGOLCODE 5490    03/01/2013

50 *LOCUM/SECUREAUDIT/HOST   DCALGOLCODE 6372    03/01/2013

60 *SYSTEM/RBACSUPPORT       DMALGOLCODE 936     03/01/2013

70 *SYSTEM/USERCENTERSUPPORT DCALGOLCODE 216     03/01/2013

#
```

- What the heck are these? 2013?
- Anyway: we could have

RERUN WITH MORE DETAIL

```
10 Name = *LOCUM/SAFELIB              Filekind = DCALGOLCODE Alignfile =
20 Alignment = FALSE Altertime = 02/15/2013 @ 14:43:41.2714 AlternateGroups =
30 AreasinUse = 10 Areasize = 1512 Areas = 10 AreaLength = 45360
40 AreaSectors = 1512 AttmodifyTime = 03/01/2013 @ 15:58:52.6136
50 BackupTime = 02/15/2013 @ 14:43:41.2714 Banner = FALSE Blocksize = 540
60 Blockstructure = FIXED Bytes = 2543580 CompilerKind =
70 CopyDestTime = 04/02/2016 @ 15:09:22.2948
80 CopySourceTime = 02/15/2013 @ 14:43:41.2714
90 CreationTime = 02/15/2013 @ 14:43:41.2714 Crunched = TRUE  Cycle = 1
100 ExecuteTime = 02/15/2013 @ 14:43:41.2714 Extmode = SINGLE
110 Fileclass = RECORDORIENTED FileLength = 423930 FileOrg = 0 FileSerialNo = 0
120 Filestructure = ALIGNED180 Formid =  FrameSize = 48 Group =  GroupRWX = RX
130 Guardowner = FALSE InUse = FALSE Label = EBCDICLABEL
140 LastaccessTime = 03/01/2013 @ 15:57:29.2616 LicenseKey = 561-HMP-HMN
150 Lockedfile = FALSE Maxrecsize = 30 Minrecsize = 0  Note =  Owner =
160 OwnerRWX = RWX OtherRWX = RX Pagecomp =  Printable = FALSE
170 Printerkind = DONTCARE Product = A-SERIES/SECURITYCENTER/REALTIMEMONITOR
180 PropagateSecurityToFiles =  PropagateSecurityToDirs =  Protection = SAVE
190 ReadTime = 03/01/2013 @ 15:57:29.2615 Records = 14131
200 ReleaseID = IC SECURITYCENTER-015.0A.1 [56.189.001] (15.038.0722)
210 Resident = TRUE  Restrictedfile = FALSE Savefactor = 999 Sectors = 14148
220 SecurityGuard =  SecurityType = PUBLIC SecurityUse = IN Sensitive = FALSE
230 Setgroupcode = FALSE Setusercode = FALSE
240 Timestamp = 03/01/2013 @ 15:56:25.5905 Trainid = NOID Transform =
250 Units = WORDS Useguardfile = FALSE Userinfo = 0 Version = 0
260 WorkLoadGroup = *UNISYS_SW1
```

- Here is one entry after rerunning the DO file with "PU=TRUE SHOW ALL"

:EOL

- DO <FILENAME> :EOL %

- Should be called WTF.

- I can't find a use for it.

- Supposed to be for comments. It's possible it might be useful for the FIX command. (when was the last time you used that?)

- It is specific to the contents of the file so it should be within the file.

- But you use it at run-time when you DO it.