

Hints & Tips for 21CS VSEⁿ

21CS VSEⁿ Team vse@21cs.com

Agenda



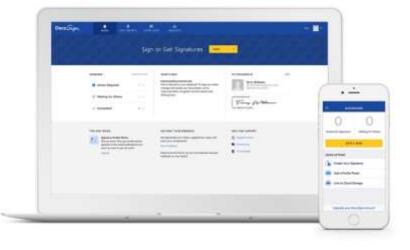
- Ordering
- Documentation: PDF Catalogs
- FSU to VSEn
- VSEn Service: RSLs and PTFs
- VSEn POWER: files extension
- Miscellaneous topics



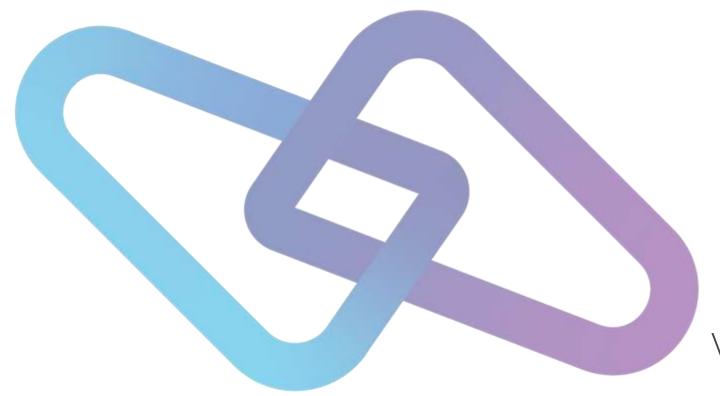
- There are 2 documents to be reviewed and signed:
 - 21CS Customer Relationship Agreement
 - 21CS Product Order License Information Attachment
- For customers in the USA, it will be triggered by Al Hanna and you will get an email from:
 - "Al Hanna via DocuSign"
 - DocuSign NA3 System <u>dse_NA3@docusign.net</u>
- For customers outside of the USA, it will be triggered by Tiffani Corbin and you will get an email from:
 - "Tiffani Corbin via DocuSign"
 - DocuSign EU System <u>dse@eumail.docusign.net</u>
- If after being notified that it has been triggered, you do not find the above email in your Inbox, please check your spam/junk mail folder











21CS VSEⁿ PDF Catalogs

The fastest way to find what you are looking for

Agenda



- What is a PDF Catalog?
- Benefits of Searching an Index
- · Where to find the 21CS PDF Catalog
- Searching the PDF Index
- · Search Results





A PDF catalog is a group of PDF files, that contains a common index.

21CS provides its collected technical documentation this way.

A PDF catalog contains:

- A PDX file which contains the index of PDF documents and folders that contain documents.
- · A folder with IDX files which contain the actual index entries.





- Significantly **faster** than a full text search of every single PDF document.
- A list of results with **direct links** to the references in all the indexed documents.

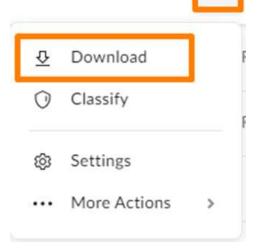




Find the Adobe Acrobat Indexed folder in your Box under 01 - Documentation.



To download click on the three dots:



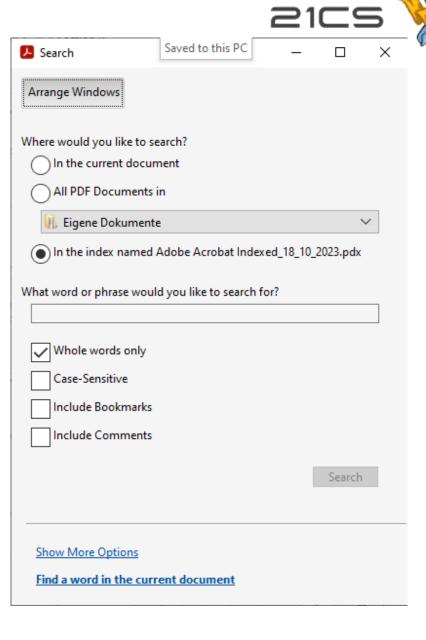
Searching the PDF Index

- Download and extract (zip file) the folder provided in Box.
 To search a PDF index, Acrobat needs to be opened as a standalone application, not within a web browser.
- 2. Open the PDX file.

Programs that allow opening Adobe Acrobat index files with the extension pdx:

Freeware: Adobe Reader

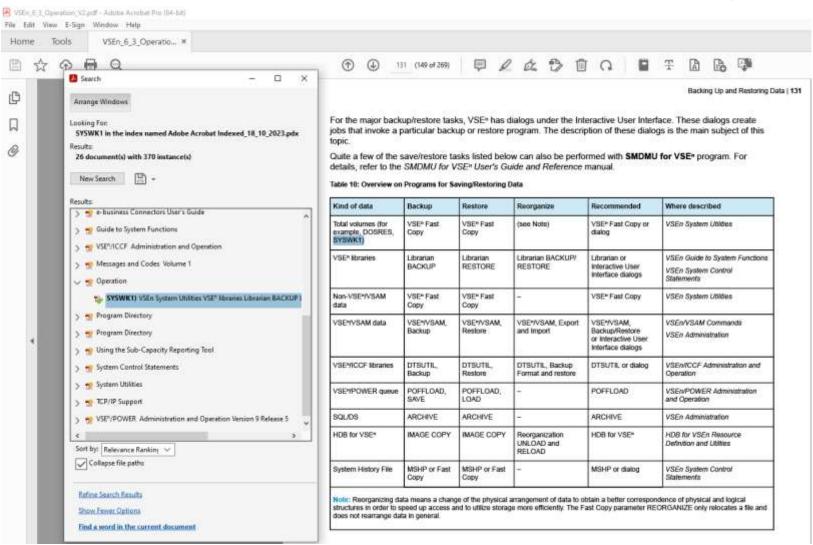
Commercial: Adobe Acrobat



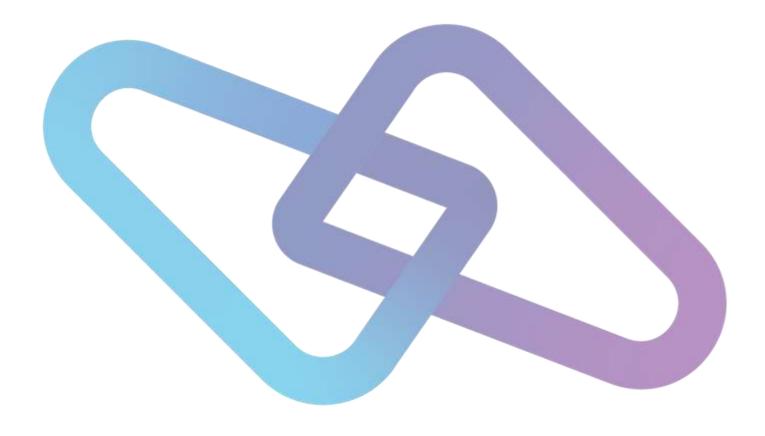


Search Results

- Result within seconds.
- List of directly linked references in the indexed manuals.
- Refine the search within the result.







FSU to VSEn





- If you plan to install VSEⁿ on a system that is capable of reading tape images in virtual tape format, you do not need to copy the image to a real tape or VSEⁿ/ VSAM. Otherwise, you can:
 - Use a "real" tape: Create a TAPE from the VSENvrm.AWS file.
 - Mount an AWS image via VSEⁿ Virtual Tape Support
 - tape-to-tape utility (SMDMU)
 - Install/upgrade from DASD using VSAM: Transfer the RSL into VSAM dataset.
 - · Allocate VSAM with skeleton SKVTAPE (ICCF library 59)
 - · Transfer the AWS file to VSAM via SMDMU, IN\$FILE, LFP or FTP (V, LRECL=32758).
- For more information about this topic, please refer to the VSEⁿ Version 6 Release
 3 System Upgrade and Service manual.

2105

FSU (cont.)

- Make sure that FSUPREP (FSU preparation step) has run successfully before starting with FSU
- Do a backup:)
- VTAM no longer requires a license key: remove it from the the EXEC card in your VTAM/VCDD start JCL

- The IBM TCP/IP for z/VSE and IPv6/VSE keys won't work with 21CS derivative products, so you will need to request new key from 21CS for the respective product.
- If Sub-Capacity License is agreed, start CMT recording with // EXEC
 PROC=CMTSTART in USERBG.PROC or other jobs running after IPL, if you had it
 before, it will still be there after FSU, so no change needed.

ESM and FSU



- Please remove "SYS ESM = xxx" from the stage 2 FSU IPL procedure before the reipl from SYSWK1.
 - o If you don't use IUI, please make sure that you removed it from IPL proc in both IJSYSRS.SYSLIB and PRD2.SAVE.

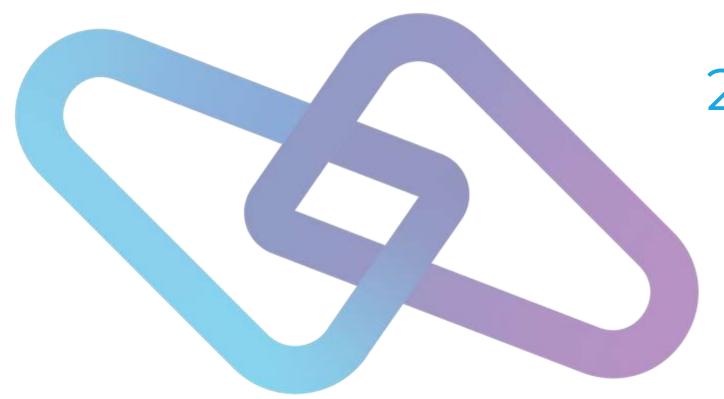
- Top secret APAR's for VSEn:
 - o LU06593 ESIVSE --> for TSS Common Component
 - o LU06484 ENF/CIS --> for TSS Common Component





- With VSEn 6.3.1, SMDMU is now included in base (PRD1.BASE)
 - If you're updating from VSEn 6.3.0 and SMDMU installed as an optional product, SMDMU files (from PRD2.PROD) should be removed before or after FSU using the DITDELV.A job (files only, FSU will take care of MSHP entry)
- · First RSL is included in 6.3.1 (so less PTFs to apply).



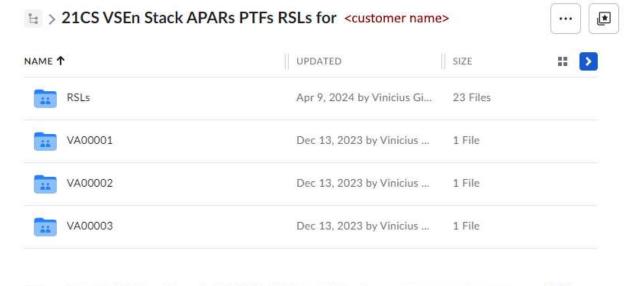


21CS VSEⁿ APARs, PTFs and RSLs





- The person(s) nominated by the customer will get a Box invitation to the folder "21CS VSEn Stack APARs PTFs RSLs for <customer name>" with the existing 21CS VSEn Stack APARs/PTFs, RSLs and excel spreadsheet with summary information.
- There are also RSLs folders for "BASE" (base products except for HLASM and TCPIP stacks), "HLASM", "OPTIONAL" (optional products) and "TCPIP" (TCPIP stacks)



ME		UPDATED ↓	SIZE
A A	PRIL 02 2024	Apr 9, 2024 by Vinicius Gi	9 Files
A	PRIL 12 2023	Sep 26, 2023 by Vasilisa S	6 Files
s S	EPT 20 2023	Sep 26, 2023 by Vasilisa S	8 Files





Each APAR subfolder contains:

- APAR text (problem description)
- PTF(s) (program temporary fix)
- MD5 hash for integrity purpose.

NAME ↑	UPDATED	SIZE
VA00144.txt	Yesterday by Vinicius Gira	6.2 KB
VP00140.md5	Yesterday by Vinicius Gira	149 B
VP00140.PTF	Yesterday by Vinicius Gira	3.3 MB



APAR – PTF spreadsheet

21CSW APAR(s)	PTF number ▼	IBM APAR(s) ▼	Affected system	Hiper ▼	Short description	Available date	Prerequisite -	Supersedes	Superseded ~	Method for installation	Status	Available in RSL	Integrated with VSEn Version	Environment -
VA00128	VP00121	PH58530	High Level Assembler for VSEn 1.6	no	Incorrect dates were shown when the clock wraps past 2042.	14.02.2024	-	-	-	Direct	Available	RSLH0002	-	VSEn
VA00131	VP00124	-	TCP/IP for VSEn 2.3.2	no	Fix from CSI ZP232097, ZP232098: 'Rename function fails during FTP transfer if a long file name is used'	25.01.2024	VP00124 has prerequisite VP00116	-	VP00124 Superseded by VP00126	Direct	Available	Not yet in RSL	-	VSEn
VA00133	VP00126		TCP/IP for VSEn 2.3.3	no	21CS TCP/IP for VSEn Service Pack 2.3.3 provides the following fixes: ZP232105*Critical messages like IPN594C scroll ZP232104*Add and modify messages ZP232103*Long wait after failed AutoFTP and invalid SETVAR ZP232102*Add new message ZP232101*SeeVSE fails to start on VSEn ZP232100*SeeVSE fails to start on VSEn ZP232099*FTP900 node name was inconsistent ZP232099*Rename with long file name fails ZP232097*Rename with long file name variables fails ZP232096*Allow PRTYSHARE for CMD and MSG and enhance ACCESS PREVENT ZP232095*Allow priority sharing weights for command and message subtasks ZP232094*Add and modify messages ZP232094*Add and modify messages ZP232094*PATYSHARE weighting for command and msg subtasks ZP232092*PRTYSHARE ON and SYSIPT input ZP232091*Q TNPORTSTAT and Q TELNET active counts are incorrect	21.02.2024		VP00126 supersedes PTFS: VP00068, VP00090, VP00106, *VP00114, VP00117, *VP00122, *VP00123, VP00124, *VP00125, *VP00129	-	Direct	Available	RSLT0003		VSEn
VA00134	VP00133	-	LE Base ENU + JPN	no	A call to an LE Service to retrieve the default currency returns the pre-Euro currency for several countries in the Eurozone.	09.04.2024	-	-	-	Indirect	Available	Not yet in RSL	-	VSEn
VA00135	VP00130	-	SMDMU for VSEn	no	Documented resource profiles used for securing SMDMU functions and resources are not effective when defined in BSM's FACILITY class.	09.04.2024	-	-	-	Direct	Available	Not yet in RSL	-	VSEn
VA00136	VP00128	-	VSEn/SP UNIQUE CODE	no	HDB stacked with other optional products are not installed correctly in PRD2.HDB1D0G.	06.02.2024	-	VP00128 supersedes VP00009, VP00088, VP00100	-	Direct	Available	RSLB0003	-	VSEn
	V000122		VICED / AE CVID O		The SDAID instruction trace prints question marks for instructions	20.04.2024				Indirect	Ausilable	Not yet in DSI		VCEn





- RSL stands for "Recommended Service Level"
- RSLs are cumulative: an RSL consists of a list of ALL APAR/PTF numbers, which are available at specific cutoff dates, this will keep your system on a current and reliable service level.
- · RSLs are released approx. every 6 months
- The latest RSLs available in Box as of April 2024 are from April 2nd, 2024:
 - RSLB0003.PTF Base Products
 - RSLO0002.PTF Optional Products (no changes since the last RSL from Sep. 2023)
 - RSLT0003.PTF TCPIP
 - RSLH0002.PTF HLASM





- · Different options to apply RSLs (PTFs):
 - Using a "real" tape: Create a TAPE from the RSL PTF file.
 - Using remote SW virtual tape server: Use VSEn Virtual Tape server to mount the RSL as a virtual TAPE.
 - Using a local SW virtual tape server with VSAM: Load the RSL file mounted in the Virtual Tape to VSAM file prior to apply processing.
 - Installation from DASD using VSAM: Transfer the RSL into PTF.FILE VSAM dataset using FTP (FB, LRECL=80).
- For more information about this topic, please refer to the VSEⁿ Version 6 Release 3 System
 Upgrade and Service manual.





- Do not apply RSLs or PTFs submitting it to a reader from VM user
 - iBOOK members can be erroneously cataloged to system libraries IJSYSRS/IJSYSR1.
 - As a result, you will get an error on DTRPTF05 stage.
 - To recover remove iBOOKs



HLASM PTFs and why not to merge them with others

 A problem can occur when installing HLASM PTFs indirectly: the customer had combined HLASM PTFs with VSE/AF PTFs that forced an indirect application.

0S03I PROGRAM CHECK INTERRUPTION - HEX LOCATION 10111213 INTERRUPTION CODE 06 - SPECIFICATION EXCEPTION

OSOOI JOB DTRPTF05 CANCELLED

• The circumvention is to install HLASM PTFs separately from INDIRECT PTFs, but we now have a PTF for this problem: VP00094 (for APAR VA00102). For this reason, the latest RSL comprises separate files for the HLASM and BASE PTFs, and we would advise you do not merge them. The VP00094 is included in the 2 latest base RSLs, so you would be able to merge future RSLs into one file if you wished.



Recovering from an interrupted indirect PTF application

- When an indirect application of PTFs cannot be completed, the steps we recommend for recovery are as follows:
 - Release DTRPTFAB, this job will restore the current status of the PTF installation and allow you to attempt a recovery.
 - reply RESET. This allows you to continue at the selected job step.
 - Enter the name of the job that should follow the one that failed (DTRPTF06). We are skipping DTRPTF05, which we know will abend
 - Let the process complete. This prevent us from being confronted later with an active job manager stream
 - Shutdown and re-ipl from SYSWK1
 - enter // EXEC PROC=DTRNOMRG to discard the failed PTF installation
 - IPL from DOSRES (you may get messages indicating a failed indirect PTF installation, just reply EOB)

Recovering from an interrupted indirect PTF application (cont.)

- Restart the PTF installation,
 - In the IUI select the service path 1423 "Apply PTF"
 - Set the TYPE to 2 (INCLUDE)
 - · On the next panel enter the PTF ids for the HLASM PTFs.
 - · On the next panel supply a new service unit name
 - Follow the steps to submit APPLYALL
- After the HLASM PTFs have been successfully installed, install the rest of the PTFs
 - In the IUI select the service path 1423 "Apply PTF"
 - Set the TYPE to 3 (EXCLUDE)
 - On the next panel enter the PTF ids for the HLASM PTFs.
 - · On the next panel supply a new service unit name
 - Follow the steps to submit APPLYALL



SW\$PIGB	APPLY PTF
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PTF MARKES VPRM	87A
PTF NUMBER	
PTF NUMBER VPNe	
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Still too many PTFs to apply after the RSL?

- You may choose to combine various PTFs into one or various PTF Collection File(s):
 - Make sure all prerequisite and corequisite PTFs are included.
 - If you don't have PTF VP00094 applied, all HLASM PTFs should be installed directly.
- How to create a PTF Collection File?
 - Simply append them into one file:
 - · On z/VM with COPYFILE (APPEND
 - On Windows with TYPE >> PTFCOLFI.PTF





- Download PTFs from the BOX.
- 2. Transfer it to z/VM as Binary FIXED 80 format.
- 3. Once you have all the PTFs that you need, use COPYFILE command with APPEND parameter.
- Use COPYFILE as follows:
 - COPYFILE fn ft fm pcf_name pcf_type pcf_mode (APPEND)
- · Where:

fn = file name pcf_name = filename of the new (should not exist before) <u>PTF collection file</u> you will create ft = file type pcf_type = file type of your <u>PTF collection file</u> pcf_mode = file mode of your <u>PTF collection file</u>

- For example: Consider creating a PTF collection file called PTFCOLFI.AWS.T with PTFs VP00001.PTF.T, VP00002.PTF.T and VP00003.PTF.T
 - COPYFILE VP00001 PTF T PTFCOLFI AWS T (APPEND
 - COPYFILE VP00002 PTF T PTFCOLFI AWS T (APPEND
 - COPYFILE VP00003 PTF T PTFCOLFI AWS T (APPEND





· Below are example of the same command issued under FILELIST utility.

Consider creating a PTF collection file called PTFCOLFI.AWS with PTFs VP00001.PTF, VP00002.PTF and VP00003.PTF

DARLI	INR FILEL	IST AØ '	V 1€	59 Trui	nc=169	Size=3 Line=1						
Direct	Directory = VSESFS:DARLINR.RSL.MYRSL											
Cmd	Filename	Filetype	Εm	Format	Lrecl	Records						
	VP00001	PTF	W1	F	80	3383						
	VP00002	PTF	W1	F	80	703						
	VP00003	PTF	W1	F	80	56						

Use COPYFILE as follows: COPYFILE / FN FT FM (APP

DARLINR	FILE	LIST /	40 \	/ 1€	59 T	run	c=169	Size=3	Line=1
Directory	= VSI	ESFS:I	DARLI	INR.	RSL.	MYR:	SL		
Cmd File	name	File	type	Εm	Form	at	Lrecl	Reco	ords
COPYFILE /	PTF	COLFI	AWS	= (APP		80	3	3383
VP00	002	PTF		W1	F		80		703
VP00	003	PTF		W1	F		80		56

Enter then you can use = (equal sign) to the rest of the PTFs that you want to include

DARL	INR FILEI	LIST AØ	V 16	9 Trur	nc=169	Size=3	Line=1				
	Directory = VSESFS:DARLINR.RSL.MYRSL										
Cmd	Filename	Filetype	Fm	Format	Lrecl	Reco	ords				
		PTF			80		3383				
	VP00002	PTF	W1	F	80		703				
	VP00003	PTF	W1	F	80		56				

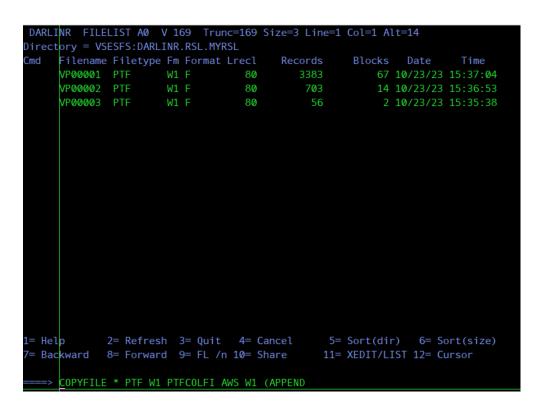
Result

DARLI	NR FILEL	IST AØ \	/ 16	9 Trui	nc=169	Size=4 Line=1					
Direct	Directory = VSESFS:DARLINR.RSL.MYRSL										
Cmd	Filename	Filetype	Εm	Format	Lrecl	Records					
	PTFCOLFI	AWS	W1	F	80	4142					
	VP00001	PTF	W1	F	80	3383					
	VP00002	PTF	W1	F	80	703					
	VP00003	PTF	Wı	F	80	56					



Creating a PTF Collection File on z/VM (cont.)

- If all PTFs that you need for your PTF Collection file are in the same directory, you can issue the command in the command line: COPYFILE * ft fm pcf_name pcf_type pcf_mode (APPEND
- Example: COPYFILE * PTF W1 PTFCOLFI AWS W1 (APPEND



DARL	INR FILE	LIST A0	V 169	Trun	c=169	Size=4 Line=1	Col=1 A	t=20	
Direct	tory = VSE	ESFS:DARL	INR.R	SL.MYR	SL				
Cmd	Filename	Filetype	Fm F	ormat	Lrecl	Records	Blocks	Date	Time
	PTFC0LFI	AWS	W1 F		80	4142	81	10/23/23	17:26:22
	VP00001	PTF	W1 F		80	3383	67	10/23/23	15:37:04
	VP00002	PTF	W1 F		80	703	14	10/23/23	15:36:53
	VP00003	PTF	W1 F		80	56	2	10/23/23	15:35:38





- 1. Download PTFs from the BOX to your local drive.
- 2. Once you have all the PTFs that you need, use the TYPE command in CMD Prompt.
- Use Type Command as follows:
 - TYPE ptf_filename1 ptf_filename2 ptf_filename3 and so on >> ptfcolfi_name
- Where:
 - ptf_filename = filename of your PTF that you want to include
 - ptfcolfi_name = filename of PTF collection file you will create
- For example: TYPE VP00001.PTF VP00002.PTF VP00003.PTF >> PTFCOLFI.AWS

```
Microsoft Windows [Version 10.0.19045.3448]

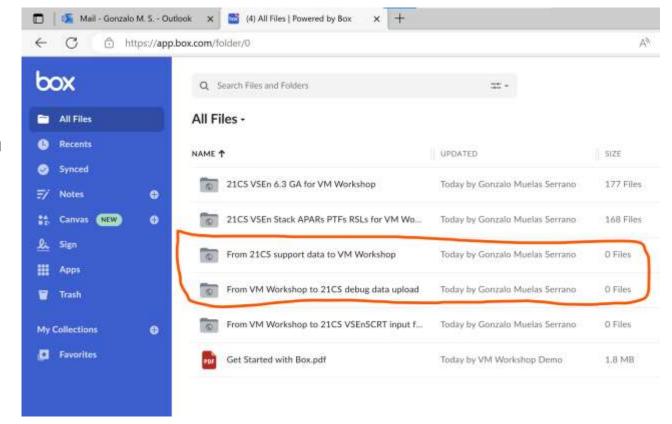
(c) Microsoft Corporation. All rights reserved.

C:\Users\DarlingRichter>TYPE VP00001.PTF VP00002.PTF VP00003.PTF >> PTFCOLFI.AWS
```

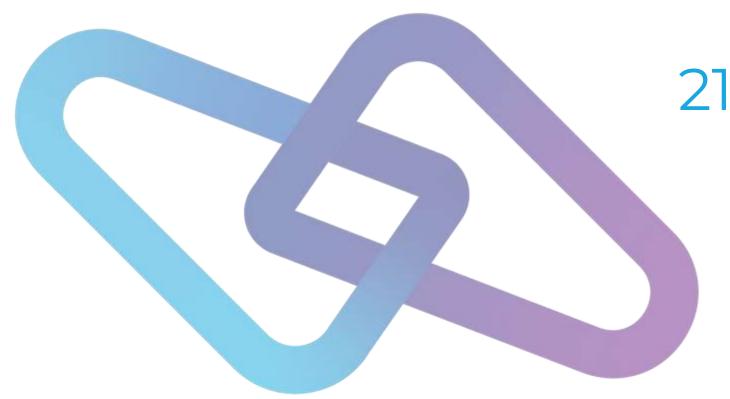


Box folder to provide information for support

- In case you would like to provide information for 21CS support, you may upload console output, dumps, configurations... to the folder "From <customer name> to 21CS VSEn debug data upload" into a subfolder representative of the issue.
- Likewise, if 21CS VSEn support team would like to provide data for support purposes, you may download it from the respective subfolder in the folder "From 21CS VSEn support data to <customer name>"



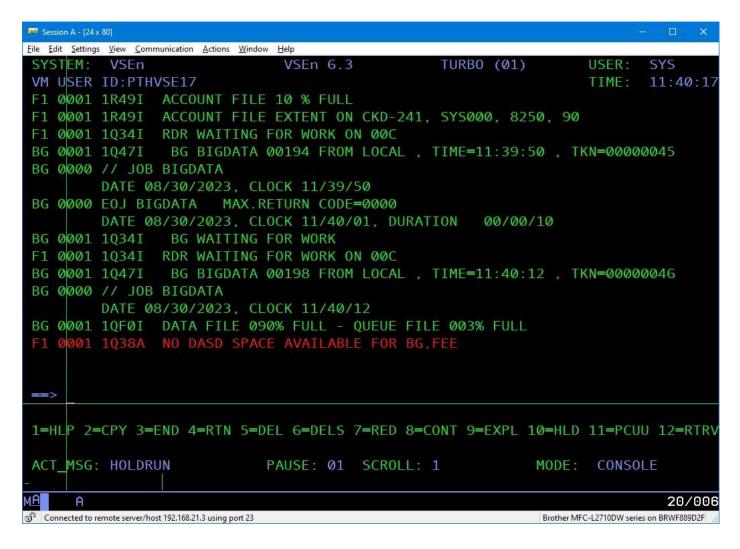




21CS VSEⁿ POWER Files extension











```
Edit Settings View Communication Actions Window Help
                                VSEn 6.3
                                                    TURBO (01)
 SYSTEM: VSEn
VM USER ID:PTHVSE17
                                                                             11:41:49
      001 1038A NO DASD SPACE AVAILABLE FOR BG, FEE
AR 0015 1C39I COMMAND PASSED TO VSEn/POWER
                QUEUE FILE 003% FULL - 1822 FREE QUEUE RECORDS
    0001 1R49I USED QUEUE RECORDS: 64, CRE-Q: 4, DEL-Q: 0
         1R49I RDR-Q: 27, LST-Q: 30, PUN-Q: 0, XMT-Q: 3
        1R49I QUEUE FILE EXTENT ON CKD-240, SYS001, 945, 15
                DATA FILE 099% FULL - 20 FREE DBLK GROUPS
               CURRENT DBLK SIZE=07548, DBLK GROUP SIZE=00008
F1 0001 1R49I DATA FILE EXTENT 1 ON CKD-241, SYS002, 6330, 1920
F1 0001 1R49I ACCOUNT FILE 10 % FULL
F1 0001 1R491 ACCOUNT FILE EXTENT ON CKD-241, SYS000, 8250, 90
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTRV
ACT MSG: HOLDRUN
                              PAUSE: 01 SCROLL: 1
                                                               MODE: CONSOLE
                                                                                20/006
Connected to remate server/host 192.168.21.3 using part 23
                                                                Brother MFC-L2710DW series on BRWF88902F
```

PDISPLAY Q: Display of the Spool File Characteristics





IJSYSRS.SYSLIB(STDLABEL.PROC):

```
// DLBL IJDFILE, 'VSE.POWER.DATA.FILE', 99/366, DA
// EXTENT SYS002, SYSWK1, 1, 0, 6330, 1920
```

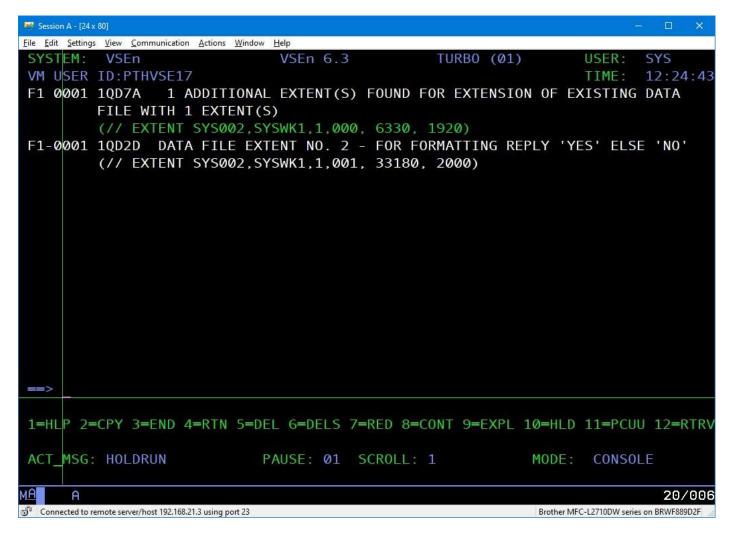
Find a free extent on your disk and add it to the procedure (up to 32), then REIPL:

```
// DLBL IJDFILE, 'VSE.POWER.DATA.FILE', 99/366, DA
// EXTENT SYS002, SYSWK1, 1, 0, 6330, 1920
// EXTENT SYS002, SYSWK1, 1, 1, 36180, 2000
```

And/or delete the largest entries from POWER queues via PDLETE. The PDISPLAY BIGGEST command may help to identify a good candidates.

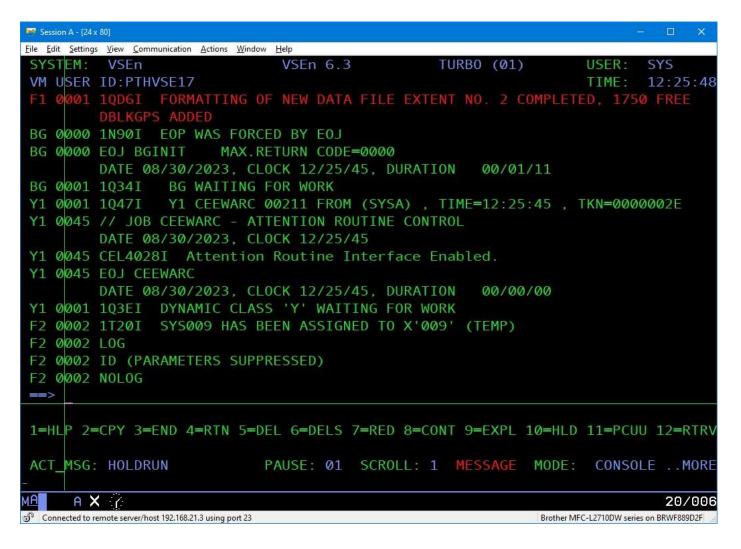






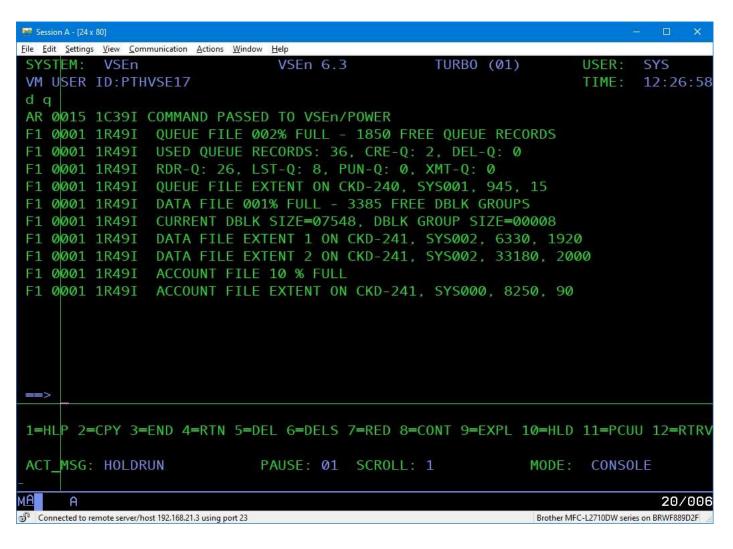






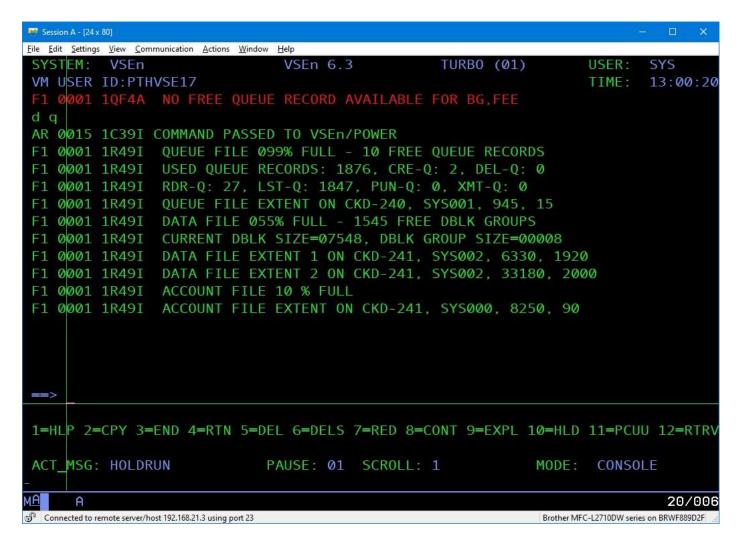














Queue file extension

Queue consists of only one extent.

```
// DLBL IJQFILE, 'VSE.POWER.QUEUE.FILE', 99/366, DA
// EXTENT SYS001, DOSRES, 1, 0, 945, 15
```

If you use the same volume, you need to define a new bigger file with a new name (it will be discovered by POWER during IPL):

```
// DLBL IJQFILE, 'VSE.POWER.QUEUE.FILE1',99/366,DA
```

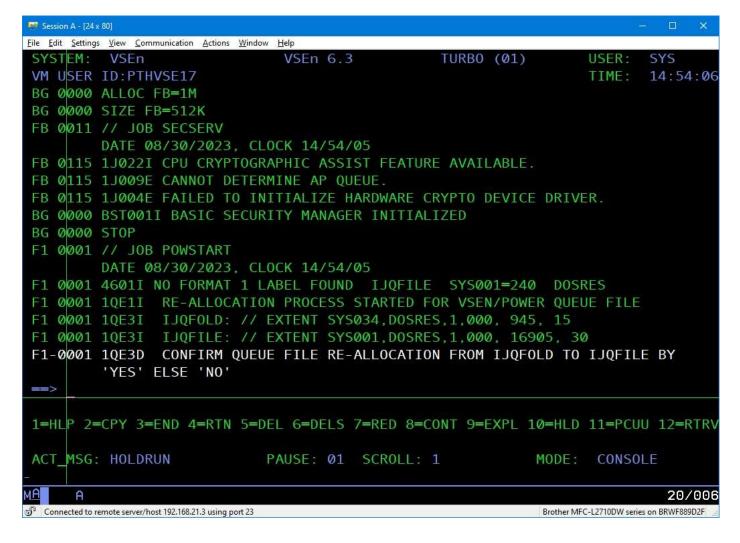
- // EXTENT SYS001, DOSRES, 1, 0, 16905, 30
- // DLBL **IJQFOLD**, 'VSE.POWER.QUEUE.FILE', 99/366, DA
- // EXTENT **SYS034**, DOSRES, 1, 0, 945, 15

DTRPOWR.PROC:

```
// ASSGN SYS001, DISK, VOL=DOSRES, SHR POWER QUEUE FILE NEW // ASSGN SYS034, DISK, VOL=DOSRES, SHR POWER QUEUE FILE OLD
```

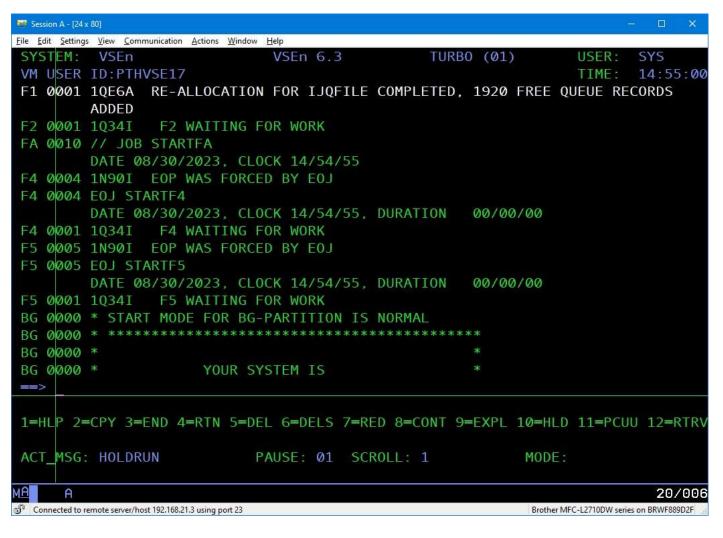






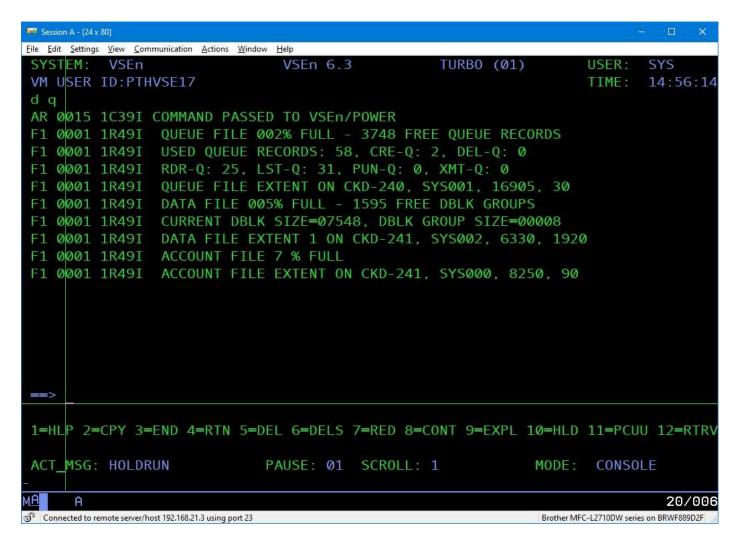














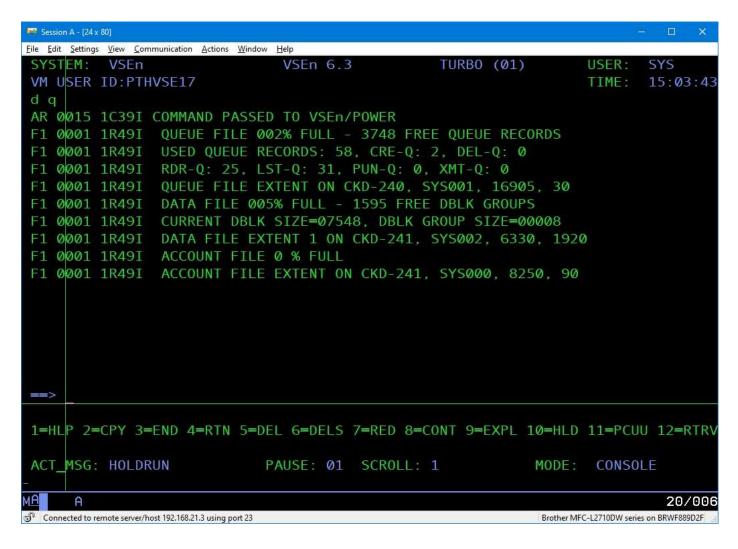


```
File Edit Settings View Communication Actions Window Help
                               VSEn 6 3
                                                  TURBO (01)
 SYSTEM: VSEn
VM USER ID PTHVSE17
                                                                           15 03 09
AR 0015 1C391 COMMAND PASSED TO VSEn/POWER
F1 0001 1R49I QUEUE FILE 002% FULL - 3748 FREE QUEUE RECORDS
F1 0001 1R49I USED QUEUE RECORDS: 58, CRE-Q: 2, DEL-Q: 0
F1 0001 1R491 RDR-Q: 25, LST-Q: 31, PUN-Q: 0, XMT-Q: 0
F1 0001 1R49I QUEUE FILE EXTENT ON CKD-240, SYS001, 16905, 30
F1 0001 1R491 DATA FILE 005% FULL - 1595 FREE DBLK GROUPS
F1 0001 1R49I CURRENT DBLK SIZE=07548, DBLK GROUP SIZE=00008
F1 0001 1R49I DATA FILE EXTENT 1 ON CKD-241, SYS002, 6330, 1920
F1 0001 1R491 ACCOUNT FILE 7 % FULL
F1 0001 1R491 ACCOUNT FILE EXTENT ON CKD-241, SYS000, 8250, 90
PACCOUNT DEL
AR 0015 1C39I COMMAND PASSED TO VSEn/POWER
F1 0001 1080I ACCOUNT FILE ERASED
1=HLP 2=CPY 3=END 4=RTN 5=DEL 6=DELS 7=RED 8=CONT 9=EXPL 10=HLD 11=PCUU 12=RTR\
ACT_MSG: HOLDRUN
                             PAUSE: 01 SCROLL: 1
                                                              MODE: CONSOLE
  Connected to remote server/host 192.168.21.3 using port 23
```

The PACCOUNT command may also save the data to tape, disk or punch queue











"THE SELECTED MEMBER IS BEING EDITED BY ANOTHER USER"



Problem:

- When attempting to update or edit a member, you receive the error message:
 - "THE SELECTED MEMBER IS BEING EDITED BY ANOTHER USER PLEASE TRY LATER."
- This error occurs when the member is currently being updated or edited by another user, or when a system failure leaves the "update in progress" indicator active.
- This issue can occur when there is an immediate shutdown of OLTP
- VSEⁿ/ICCF administrator can use the /PROTECT command to clear the "update in progress" attribute. This command is specifically designed to turn off the attribute, allowing you to resume editing the affected member.
- /PROTECT <member> UPIP. Replace <member> with the name of the affected member.







A partner reported the following error when trying to use ZEKE in OLTP.

```
'F2 0169 DFHAP0001 DBDCCICS An abend (code 2C5/AKEB) has occurred at offset X'FFFFFFFF' in module ZEKE12A.'

**AKEB:** *An operating system abend has been detected by the kernel (KE) domain.*
```

A review of the console log showed:

```
5598 F2 0169 Z0103E INVALID OR INCORRECTLY ASSIGNED CATALOG LOGICAL UNIT - SYS026
```

- Although this problem happened when using ZEKE, similar problems could occur for other vendor products. The reason is that certain vendor products require permanent assignments to disks that contain their product files, and these assignments, if not copied or restored correctly, may be lost or overwritten by the FSU process.
- It is therefore recommended that you check the JCL and procedures that run during an IPL for permanent assignments added to support vendor products.

Permanent assignments – where to check



Static Partitions
 Check your ASI procedures for each partition.

```
CATALOG $8JCL002.PROC
                           EOD=YY DATA=YES REPLACE=YES
// LIBDEF DUMP, CATALOG=SYSDUMP.F8, PERM
// JOB STARTF8
// SETPARM XNCPU=' '
// EXEC PROC=$COMVAR, XNCPU
// SETPARM XSPINIT='FINISHED'
// EXEC PROC=CPUVAR&XNCPU,XSPINIT
// ON $RC=99 GOTO SECPART
// EXEC BSSINIT
SET MRCZERO
                                           SET LIBDEF SEARCH CHAINS
// EXEC PROC=LIBDEF5
ASSGN SYSIN, FEC, PERM
ASSGN SYSPCH, FED
ASSGN SYSLST, FEE
ASSGN SYSLNK, DISK, VOL=DOSRES, SHR
                                             SYSTEM LINK FILE
ASSGN SYS001, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 1
ASSGN SYS002, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 2
ASSGN SYS003, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 3
ASSGN SYS004, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 4
// GOTO FINISH
/. SECPART
                               !! NO PWD REQUIRED !!
// ID USER=FORSEC
// EXEC BSTPSTS,DSPACE=3M,OS390
/. FINISH
YY
```

 For POWER the partition assignments are in DTRPOWR.PROC

```
// ASSGN SYS000,DISK,VOL=SYSWK1,SHR POWER ACCOUNT FILE
// ASSGN SYS001,DISK,VOL=DOSRES,SHR POWER QUEUE FILE
// ASSGN SYS002,DISK,VOL=SYSWK1,SHR POWER DATA FILE 1
```

Make sure a vendor permanent assignment hasn't been slipped in here.

Also check DTRCICST.PROC for vendor assignments.

```
// DLBL IJSYS01, '%DOS.WORKFILE.SYS001.RECOVER',0,VSAM,
CAT=VSESPUC,RECSIZE=4096,
DISP=(NEW,KEEP),RECORDS=(30,50)

// DLBL IJSYS02, '%DOS.WORKFILE.SYS002.RECOVER',0,VSAM,
CAT=VSESPUC,RECSIZE=4096,
DISP=(NEW,KEEP),RECORDS=(30,50)

// ASSGN SYS001,DISK,VOL=DOSRES,SHR
DTSFILE RECOVERY EXTENT 1

// ASSGN SYS002,DISK,VOL=SYSWK1,SHR
DTSFILE RECOVERY EXTENT 2
```

 And finally check your OLTP JCL or the JCL for any other long running tasks.

Permanent assignments – where to check (cont.) ≥1⊂5



Dynamic Partitions

In dynamic partitions assignments can be found in the standard profile procedures that are run when a dynamic partition is started. These profiles are listed when you enter the **D DYNC** command on the VSE console.

```
d dync
AR 0015 1C39I COMMAND PASSED TO VSEn/POWER
                         ACTIVE DYNAMIC CLASS TABLE DTR$DYNV.Z
F1 0001 106AI
               CLS STATE
                            ACT/MAX ALLOC
                                              SIZE SP-GETV
                                                             PROFILE LUBS
F1 0001 1Q6AI
                   ENAB
                                              500K
                                                      128K
                                                             STDPROF5
F1 0001 106AI
                                                      128K
                   ENAB
                              0 32
                                             512K
                                                             PWSPROF
                                                                       50
F1 0001 106AI
                   ENAB
                                            1024K
                                                      128K
                                                             STDPROF5 100
F1 0001 106AI
                   ENAB
                                      32M
                                            1024K
                                                      512K
                                                             STDPROF5 100
F1 0001 1Q6AI
                    ENAB
                                            1024K
                                                      128K
F1 0001 1Q6AI
                   ENAB
                                            1024K
                                                      128K
F1 0001 1Q6AI
                Z ENAB
                                            1024K
                                                      128K
                                                             STDPROF5 50
```

• Check the STDPROF

```
CATALOG STDPROF.PROC
                           EOD=YY DATA=YES REPLACE=YES
// LIBDEF DUMP, CATALOG=SYSDUMP.DYN, PERM
// OPTION NODUMP
// EXEC PROC=LIBDEF
ASSGN SYSIN, FEC
ASSGN SYSPCH, FED
ASSGN SYSLST, FEE
ASSGN SYSLNK, DISK, VOL=DOSRES, SHR
                                             SYSTEM LINK FILE
ASSGN SYS001, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 1
ASSGN SYS002, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 2
ASSGN SYS003.DISK.VOL=SYSWK1.SHR
                                             SYSTEM WORK FILE 3
ASSGN SYS004, DISK, VOL=SYSWK1, SHR
                                             SYSTEM WORK FILE 4
```

and any user defined profiles for your dynamic

partitions:

			EOD=XY		REPLACE=YES		
	ALLOC	SIZE					ENABLED
V	-VVVV	-VVVVV-	-VVVVV	-VVV-	-YVVVVVV	-VV	V
				58	MYPROF	09	γ
THE PARTY OF THE P	F00377777	TEGE-557		W-		and the section	
			070,000		0.000		
1.00							
7.77							
		10000000			2000000	STEEDS	

				58	PMSPROF	32	*
	YV-	WW	44		WW	-xy-	
252							
0.75							
1000							
V	-YYYY	-VVVVVV-	-vvvvv	-444-	- YVVVVVV	-VV	V
R	В	1024	128	100	STOPROF	83	80
POWER.	SPOOLED	DEVICES					
VV-	vv-		yy	¥-	yy	-yy-	y
FEC							
FEE							
FED							
V	· vvvv	- ٧٧٧٧٧-	-www	-vvv-	- ٧٧٧٧٧٧٧	- VV	
300000							

	C POWER V V FEE FED V V FEE FEED V V FEE FEED V V FEC FEE FED V V FEC FEE FED V V FEC FEED V V FEC FEED V V V FEED V V V FEED V V V V V V V V	C 1 POWER SPOOLED VVV- FEC FEE FED VVVV- FEC FEE FED VVVV- FEC FEE FED VVVV- FEC FEE FED VVVVV- FEC FEE FED VVVVVV- FEC FEE FEU VVVVVV FEC FEE FEU VVVVV FEC FEE	C 1 500 POWER SPOOLED DEVICES VVVV FEC FEE FED VVVVV P 1 512 POWER SPOOLED DEVICES VVVV FEC FEE FED VV-VVV R 8 1024 POWER SPOOLED DEVICES VVVVV FEC	C 1 500 128 POWER SPOOLED DEVICES VVVVVVVVVVVVV	C 1 500 128 50 POWER SPOOLED DEVICES VVVVVVVVVVVVV	C 1 500 128 50 MYPROF POWER SPOOLED DEVICES	POWER SPOOLED DEVICES VV-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-

Beware the VSEn TASKS Limit



The following problem was reported:

syslst for errors

• FTP Batch jobs may fail at random when 3 or more FTPBATCH client jobs run in parallel.

FTP307D FTPBATCH diagnostic: MAINATCF RC=80000A1C RS=00000A2E FTP316I FTPDAEMN terminated. FTP316I IPNAFTPC-2 terminated. FTP306I Commands from SYSIPT FLUSHED FTP328E FTPBATCH failed rc=0000000C ,check

 After consultation with CSI it was determined that the return code indicated in the FTP307D message indicated that an ATTACH had failed because the system had run out of subtasks.

- There are **two** maximum numbers to consider.
 - a maximum of 31 subtasks can run in a single partition. This value was not exceeded by FTPBATCH
 - the maximum number of subtasks that can be active concurrently in the whole system is determined by the value specified in the SYSDEF SYSTEM NTASKS command, that you will find in your ASI procedure for BG.
- The value for NTASKS can be 255, a number between 256 and 512 or MAX, which sets the value at 512. If this value is reached, an ATTACH subtask request will fail.
- Except in special cases, you will probably want to set this value to MAX.

SYSDEF SYSTEM, NTASKS=MAX, TASKS=ANY





- But even if you have defined MAX, the number of subtasks
 available is reduced by the number of reserved subtasks,
 which are:
 - o the 32 system tasks
 - the maximum number of partitions defined in the IPL proc by SYS NPARTS (max 200, default 20). Each of these will require 1 maintask.
- So the maximum number of subtasks that can be attached
 = "SYSDEF SYSTEM NTASKS" value "IPL SYS NPARTS" value
 32 system tasks
- The **default for NTASKS is 255** and this is specified in the supplied \$0JCL.PROC.
- The supplied \$IPLESA specifies SYS NPARTS = 120
- So after a standard installation you have:
 255 120 32 = 103 possible subtasks.

- You should monitor your system, to make sure you are not wasting subtasks by reserving too many partitions.
 - Use the SIR command and review the following output

```
AR 0015 TASKS ATT.= 00015 HIGH-MARK = 00015 MAX = 00103
AR 0015 DYN.PARTS = 00002 HIGH-MARK = 00003 MAX = 00108
```

- The first line shows you whether the highest number of concurrent tasks is approaching the maximum
- The second line will indicate whether you have reserved too many partitions with the NPARTS parameter. Here for example, I have defined the standard 120 (108 dynamic + 12 static) partitions and only used 3, so I guess there's room to tune this.
- Just increasing NTASKS to MAX will make this look much healthier







Thank you!