

MARC Commands

SHOW and FIND

SHOW Command

- > Action line: GO SHOWPK
- > Choice line: IO PK SHOWPK

SHOWPK

CHASQUI Web Enabler for ClearPath MCP
File Edit Font Advanced Print Help
SHOWPK - Show Packs 11:07:48
Action: [Home Prev GO Parent Command] (Press SPCPY for Help)
Indicate attributes to display (type an 'X'):

AVAILSECTS	<input checked="" type="checkbox"/>	BASEUNIT	<input type="checkbox"/>	CACHED	<input type="checkbox"/>
LARGESTSECTS	<input type="checkbox"/>	NAME	<input checked="" type="checkbox"/>	SERIAL	<input type="checkbox"/>
TOTALREADS	<input type="checkbox"/>	TOTALWRITES	<input type="checkbox"/>	UNITNO	<input type="checkbox"/>

Enter 'X' to inhibit attribute truncation: .
Enter 'X' to indicate -
SORTing desired: . . SELECTION desired: .

Window MARC/1 at CHASQUI
Row 6 Col 23 Page 3 insert receive forms CAPS

SHOWPK

CHASQUI Web Enabler for ClearPath MCP
File Edit Font Advanced Print Help
SHOWPKSORT - SORT By Attribute (SHOW PK) 11:09:15
Action: [Home GO Parent Command] (Press SPCPY for Help)
Indicate one attribute to SORT by (type an 'X'):

AVAILSECTS	<input checked="" type="checkbox"/>	BASEUNIT	<input type="checkbox"/>	LARGESTSECTS	<input type="checkbox"/>
NAME	<input type="checkbox"/>	SERIAL	<input type="checkbox"/>	TOTALREADS	<input type="checkbox"/>
TOTALWRITES	<input type="checkbox"/>	UNITNO	<input type="checkbox"/>		

Enter 'X' for SORT direction - Ascending: Descending:

Window MARC/1 at CHASQUI
Row 6 Col 23 Page 3 insert receive forms CAPS

SHOWPK

```
CHASQUI Web Enabler for ClearPath MCP
File Edit Font Advanced Print Help
OUTPUT - MARC COMMAND OUTPUT 11:09:36
Action:
Home GO Return Cmdnd $Tore + - (Press $PCFY for Help)
Response returned at 11:09:36
UnitNo--AvailSects--Name-----
9207 3,756,044 COPSTEST
9249 6,445,995 SYSBACK571
9201 6,775,175 571DISK
901 0,467,974 INTERNAL
9202 14,796,121 591DISK
9250 15,789,397 SYSBACK581
9247 18,567,768 SYSBACK591
9251 21,596,228 SYSBACKT8T
9223 21,698,276 OLDDISK
9210 23,081,625 DBBACK2
9248 23,626,776 DBALIB
9225 30,756,009 PASPROC001
9200 32,061,989 561DISK
9208 35,789,307 COPSTEST
SHOW PK availsects, name sort + availsects
Window MARC/1 at CHASQUI
Row 2 Col 11 Page 3 insert receive forms CAPS
```

FIND Command

- > Action line: GO FINDPK
- > Choice line: IO PK FINDPK

FINDPK

CHASQUI Web Enabler for ClearPath MCP
File Edit Font Advanced Print Help

FINDPK - Find Packs 11:10:05

Action: Home Prev GO Parent Command (Press SPCPY for Help)

Indicate one attribute to FIND upon (type an 'X'):

AVAILSECTS	<input checked="" type="checkbox"/>	BASEUNIT	<input type="checkbox"/>	CACHED	<input type="checkbox"/>
LARGESTSECTS	<input type="checkbox"/>	NAME	<input type="checkbox"/>	SERIAL	<input type="checkbox"/>
TOTALREADS	<input type="checkbox"/>	TOTALWRITES	<input type="checkbox"/>	UNITNO	<input type="checkbox"/>

Enter 'X' for SORT direction - Ascending : Descending :

Enter 'X' to inhibit attribute truncation:

Enter attribute value for SELECT compare: 2000000

Enter 'X' for type of comparison:

<input type="checkbox"/>	>	<input type="checkbox"/>	>=	<input type="checkbox"/>	=	<input checked="" type="checkbox"/>	<=	<input type="checkbox"/>	<	<input type="checkbox"/>	or not equal to
--------------------------	---	--------------------------	----	--------------------------	---	-------------------------------------	----	--------------------------	---	--------------------------	-----------------

Window MARC/1 at CHASQUI

Row 6 Col 23 Page 3 insert receive forms CAPS

FINDPK

CHASQUI Web Enabler for ClearPath MCP
File Edit Font Advanced Print Help

OUTPUT - MARC COMMAND OUTPUT 11:12:28

Action: Home GO Return Command Store + - (Press SPCPY for Help)

Response returned at 11:12:28

UnitNo-Serial-Familyindex-Type-AvailSects-Name-----					
9207 005210	1	B	3,756,044	COPSTEST	
9249 005252	1	B	6,445,995	SYSPACK571	
9201 005200	1	B	6,775,175	571DISK	
901 000901	1	B	0,467,974	INTERNAL	
9202 005201	1	B	14,796,121	581DISK	
9250 005242	1	B	15,789,397	SYSPACK581	
9247 009247	1	B	18,567,768	SYSPACK591	
9421	0	U	0		
9420	0	U	0		
9419	0	U	0		
9418	0	U	0		
9417	0	U	0		
9416	0	U	0		
9415	0	U	0		

FIND pk availsects <= 20000000 sort +

Window MARC/1 at CHASQUI

Row 2 Col 11 Page 3 insert receive forms CAPS

Search in CANDE

U *SYSTEM/PUNIT

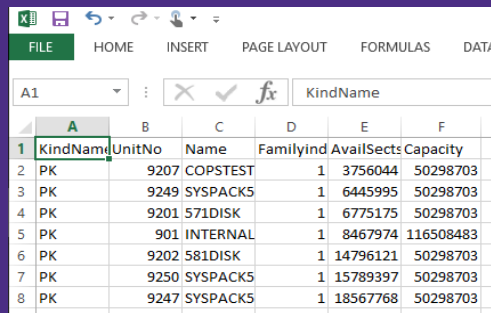
```
SELECT KINDNAME = PK AND AVAILSECTS <= 2000000 AND FAMILYINDEX>0  
SORT + AVAILSECTS  
SHOW KINDNAME, UNITNO, NAME, FAMILYINDEX, AVAILSECTS, CAPACITY
```

KindName	UnitNo	Name	FamilyIndex	AvailSects	Capacity
PK	9207	COPSTEST	1	3756044	50298703
PK	9249	SYSPACK571	1	6445995	50298703
PK	9201	571DISK	1	6775175	50298703
PK	901	INTERNAL	1	8467974	116508483
PK	9202	581DISK	1	14796121	50298703
PK	9250	SYSPACK581	1	15789397	50298703
PK	9247	SYSPACK591	1	18567768	50298703

Results to CSV File

U *SYSTEM/PUNIT

```
SELECT KINDNAME = PK AND AVAILSECTS <= 2000000 AND FAMILYINDEX>0  
SHOW KINDNAME, UNITNO, NAME, FAMILYINDEX, AVAILSECTS, CAPACITY  
SORT + AVAILSECTS :CSV "PKSECTS.CSV"
```



KindName	UnitNo	Name	FamilyIndex	AvailSects	Capacity
PK	9207	COPSTEST	1	3756044	50298703
PK	9249	SYSPACK5	1	6445995	50298703
PK	9201	571DISK	1	6775175	50298703
PK	901	INTERNAL	1	8467974	116508483
PK	9202	581DISK	1	14796121	50298703
PK	9250	SYSPACK5	1	15789397	50298703
PK	9247	SYSPACK5	1	18567768	50298703

Showing MIX Entries

Same techniques for MIX entries

- > **SHOWMX**
- > **FINDMX**
- > ***SYSTEM/PMIX**
- > **Documentation**
 - System Commands Reference Manual
 - System Software Utilities Reference Manual
Chapter 23 – PDIR, PMIX & PUNIT Utilities
 - MCP System Interfaces Programming Reference Manual
Section 4. ASERIES_INFO

PDIR | PMIX | PUNIT

All built from same source file

- > **PDIR – Reports file information**
- > **PMIX – Reports mix information**
- > **PUNIT – Reports hardware entities**

- > **Same interface; different keywords**
- > **Output to screen, printout, .CSV, WFL deck**
- > **Result to TASKSTRING**

PMIX Example

```
SUBROUTINE GETKMAPI MI XNO (BOOLEAN runni ng, STRI NG mi xno);
  BEGI N
    TASK  t;
    RUN  *SYSTEM/PMI X("SELECT NAME=""=KMAPI="" :TASKSTRI NG (MI XNO)") [T];
    mi xno := t(TASKSTRI NG);
    runni ng := LENGTH(mi xno) GTR 0;
    END GETKMAPI MI XNO;
. . .
GETKMAPI MI XNO (Kmapl Runni ng, sKMAPI);
IF Kmapl Runni ng THEN
  BEGI N
    DI SPLAY ("Instructi ng KMAPI /SUPPORT #" & sKMAPI
              & " to close the database");
    RUN *OBJECT/DCKEY (sKMAPI & "AX CLOSE DATABASE "); VALUE=1;
    WAI T (10);
  END;
```

I Didn't Know I could do That: The SHOW & FIND commands

SHOW PK

Perhaps you want to monitor your packs to ensure they aren't getting too full.

- 1) On MARC either:
 - a. On the Action line enter "GO SHOWPK"
 - b. On the choice line enter "IO PK SHOWPK"
- 2) Fill in the boxes and transmit

The screenshot shows a web browser window titled "CHASQUI Web Enabler for ClearPath MCP". The interface is a terminal-style screen with a menu bar (File, Edit, Font, Advanced, Print, Help) and a status bar at the bottom. The main content area displays the "SHOWPK - Show Packs" command execution screen. At the top right, the time "11:07:48" is shown. Below the title, there is an "Action:" field with a greyed-out input box. A navigation bar contains "HOMe PReV GO PARENT COMnd" and "(Press SPCFY for Help)". The main instruction is "Indicate attributes to display (type an 'X'):". Below this, there are three columns of attributes, each with a checkbox: AVAILSECTS (checked with 'x'), BASEUNIT, CACHED, LARGESTSZSECTS, NAME (checked with 'x'), SERIAL, TOTALREADS, TOTALWRITES, and UNITNO. At the bottom of the main area, there are two more options: "Enter 'X' to inhibit attribute truncation:" (unchecked) and "Enter 'X' to indicate - SORTing desired:" (checked with 'x'), followed by "SELECTION desired:" (unchecked). The status bar at the bottom shows "Window MARC/1 at CHASQUI" and "Row 6 Col 23 Page 3 insert receive forms CAPS".

```
CHASQUI Web Enabler for ClearPath MCP 11:07:48
File Edit Font Advanced Print Help
SHOWPK - Show Packs
Action:
HOMe PReV GO PARENT COMnd (Press SPCFY for Help)
Indicate attributes to display (type an 'X'):
AVAILSECTS . . . . . x  BASEUNIT . . . . .  CACHED . . . . .
LARGESTSZSECTS . . . . .  NAME . . . . . x  SERIAL . . . . .
TOTALREADS . . . . .  TOTALWRITES . . . . .  UNITNO . . . . .
Enter 'X' to inhibit attribute truncation: .
Enter 'X' to indicate -
SORTing desired: . . x  SELECTION desired: .
Window MARC/1 at CHASQUI
Row 6 Col 23 Page 3 insert receive forms CAPS
```


3) More boxes and transmit

CHASQUI Web Enabler for ClearPath MCP 11:09:15

File Edit Font Advanced Print Help

SHOWPKSORT - SORT By Attribute (SHOW PK)

Action:

H0me GO PARENT C0mnd (Press SPCFY for Help)

Indicate one attribute to SORT by (type an 'X'):

AVAILSECTS	<input checked="" type="checkbox"/>	BASEUNIT	<input type="checkbox"/>	LARGESTSZSECTS	<input type="checkbox"/>
NAME	<input type="checkbox"/>	SERIAL	<input type="checkbox"/>	TOTALREADS	<input type="checkbox"/>
TOTALWRITES	<input type="checkbox"/>	UNITNO	<input type="checkbox"/>		

Enter 'X' for SORT direction - Ascending : Descending :

Window MARC/1 at CHASQUI

Row 6 Col 23 Page 3 insert receive forms CAPS

4) Result

The screenshot shows a web browser window titled "CHASQUI Web Enabler for ClearPath MCP". The browser's address bar contains "OUTPUT - MARC COMMAND OUTPUT" and the time is "11:09:36". The browser's menu bar includes "File", "Edit", "Font", "Advanced", "Print", and "Help". The main content area displays a terminal window with the following text:

```
Action: +
        H0me GO R0turn C0mnd ST0re + - (Press SPCFY for Help)

Response returned at 11:09:36

UnitNo--AvailSects-Name-----
 9207   3,756,044 COPSTEST
 9249   6,445,995 SYSPACK571
 9201   6,775,175 571DISK
   901   8,467,974 INTERNAL
 9202  14,796,121 581DISK
 9250  15,789,397 SYSPACK581
 9247  18,567,768 SYSPACK591
 9251  21,596,228 SYSPACKTST
 9223  21,698,276 OLDDISK
 9210  23,081,625 DBPACK2
 9248  23,626,776 DBALIB
 9225  30,756,009 FASPROD001
 9200  32,061,989 561DISK
 9208  35,789,307 COPSTEST

SHOW PK availsects, name sort + availsects

Window MARC/1 at CHASQUI

Row 2 Col 11 Page 3 insert receive forms CAPS
```

- 5) Note the generated command near the bottom. **“SHOW PK availsects, name sort + availsects”**
You can enter that directly on the action line to get the same result.

Note also that this is for each unit not the entire family.

6) You can also search for particular attributes with the FINDPK screen

CHASQUI Web Enabler for ClearPath MCP 11:10:05

File Edit Font Advanced Print Help

FINDPK - Find Packs

Action: [REDACTED]

HOMe PReV GO PArent COmnd (Press SPCFY for Help)

Indicate one attribute to FIND upon (type an 'X'):

AVAILSECTS	<input checked="" type="checkbox"/>	BASEUNIT	<input type="checkbox"/>	CACHED	<input type="checkbox"/>
LARGESTSZSECTS	<input type="checkbox"/>	NAME	<input type="checkbox"/>	SERIAL	<input type="checkbox"/>
TOTALREADS	<input type="checkbox"/>	TOTALWRITES	<input type="checkbox"/>	UNITNO	<input type="checkbox"/>

Enter 'X' for SORT direction - Ascending : Descending :

Enter 'X' to inhibit attribute truncation: .

Enter attribute value for SELECT compare: 20000000

Enter 'X' for type of comparison:

> >= = <= < or not equal to

Window MARC/1 at CHASQUI

Row 6 Col 23 Page 3 insert receive forms CAPS

7)

CHASQUI Web Enabler for ClearPath MCP

File Edit Font Advanced Print Help

OUTPUT - MARC COMMAND OUTPUT 11:12:28

Action: **+**
HOMe GO RETurn COmnd STORE + - (Press SPCFY for Help)

Response returned at 11:12:28

UnitNo	Serial	Familyindex	Type	AvailSects	Name
9207	005210	1	B	3,756,044	COPSTEST
9249	005252	1	B	6,445,995	SYSPACK571
9201	005200	1	B	6,775,175	571DISK
901	000901	1	B	8,467,974	INTERNAL
9202	005201	1	B	14,796,121	581DISK
9250	005242	1	B	15,789,397	SYSPACK581
9247	009247	1	B	18,567,768	SYSPACK591
9421		0	U	0	
9420		0	U	0	
9419		0	U	0	
9418		0	U	0	
9417		0	U	0	
9416		0	U	0	
9415		0	U	0	

FIND pk availsects <= 20000000 sort +

Window MARC/1 at CHASQUI

Row 2 Col 11 Page 3 insert receive forms CAPS

8) If you want to narrow your search with more criteria use *SYSTEM/PUNIT from CANDE
U *SYSTEM/PUNIT

```
SELECT KINDNAME = PK AND AVAILSECTS <= 20000000 AND FAMILYINDEX>0  
SORT + AVAILSECTS  
SHOW KINDNAME, UNITNO, NAME, FAMILYINDEX, AVAILSECTS, CAPACITY
```

Yields:

KindName	UnitNo	Name	Familyindex	AvailSects	Capacity
PK	9207	COPSTEST	1	3756044	50298703
PK	9249	SYSPACK571	1	6445995	50298703

```

PK          9201    571DISK    1          6775175    50298703
PK          901     INTERNAL    1          8467974    116508483
PK          9202    581DISK    1          14796121   50298703
PK          9250    SYSPACK581 1          15789397   50298703
PK          9247    SYSPACK591 1          18567768   50298703

#ET=0.2 PT=0.2 IO=0.0

```

- 9) You can also create a Comma Separated Values file by appending “:CSV <filename>”
U *SYSTEM/PUNIT

```

SELECT KINDNAME = PK AND AVAILSECTS <= 20000000 AND FAMILYINDEX>0
SHOW KINDNAME, UNITNO, NAME,FAMILYINDEX,AVAILSECTS, CAPACITY
SORT + AVAILSECTS :CSV "PKSECTS.CSV"

```

Transfer the file to your window system or use a mapped share and double-click it to open it in Excel.

I use Print2Web (because I can).

```
PRINT "PKSECTS.CSV"(PAGECOMP="#DOCTYPE='TXT' #EXT='CSV'")
```

	A	B	C	D	E	F
1	KindName	UnitNo	Name	Familyind	AvailSects	Capacity
2	PK	9207	COPSTEST	1	3756044	50298703
3	PK	9249	SYSPACK5	1	6445995	50298703
4	PK	9201	571DISK	1	6775175	50298703
5	PK	901	INTERNAL	1	8467974	116508483
6	PK	9202	581DISK	1	14796121	50298703
7	PK	9250	SYSPACK5	1	15789397	50298703
8	PK	9247	SYSPACK5	1	18567768	50298703

SHOWMX and FINDMX

The same techniques can be used for Mix entries using SHOWMX, FINDMX and *SYSTEM/PMIX.

For more information consult:

- System Commands Reference Manual
- System Software Utilities Reference Manual – Chapter 23 – PDIR, PMIX & PUNIT Utilities
- MCP System Interfaces Programming Reference Manual – Section 4. ASERIES_INFO

SYSTEM/PDIR – SYSTEM/PMIX – SYSTEM/PUNIT

SYSTEM/PDIR has been around for quite a while and everyone has used it ... right?

SYSTEM/PMIX is used for reports on MIX entries.

SYSTEM/PUNIT is used for reports on HARDWARE entities.

The interface to them is the same; only the keywords are changed. In fact: it's they all share same source code.

In addition to the screen and .CSV file output you can print it or create WFL decks suitable for inclusion into your JOBS.

Also you can have the results placed into the TASKSTRING of the task so you can access it from a WFL. Here is a snippet of code a colleague recently wrote to get the mix number of a running process.

```
SUBROUTINE GETKMAPIMIXNO (BOOLEAN running, STRING mixno); BEGIN TASK
t; RUN *SYSTEM/PMIX("SELECT NAME=""=KMAPI="":TASKSTRING (MIXNO)") [T];
mixno := t(TASKSTRING); running := LENGTH(mixno) GTR 0;
  END GETKMAPIMIXNO;. . . GETKMAPIMIXNO (Kmapirunning, sKMAPI); IF
Kmapirunning THEN BEGIN DISPLAY ("Instructing KMAPI/SUPPORT #" &
sKMAPI& " to close the database"); RUN *OBJECT/DCKEY (sKMAPI & "AX
CLOSE DATABASE "); VALUE=1; WAIT (10); END;
```