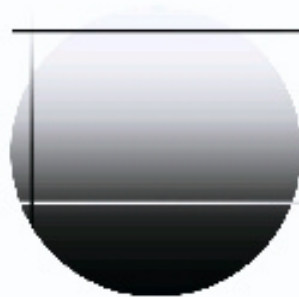


*Slide 1*

H01

# IMS HIGH PERFORMANCE CHANGE ACCUMULATION

Richard Walston  
Raquel Carvalho



**IMS**

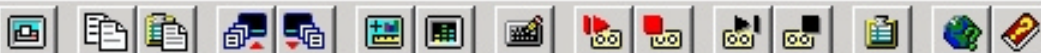
technical conference

Las Vegas, NV

September 15 - September 18, 2003

Slide 2  
Session A - [24 x 80]

File Edit View Communication Actions Window Help



z/VM ONLINE

```
=====
=====
====
=== Global Services ===
====
=====
=====
```

Help Desk : 888-IBM-HELP (888-426-4357)

Fill in your USERID and PASSWORD (which will not appear), then press ENTER.  
If you are already logged on, enter LOGON userid HERE on the COMMAND line.

USERID ==>

PASSWORD ==>

COMMAND ==> d pvm\_

Type D PVM

RUNNING SJEVM5

MA

a

23/021

Connected to remote server/host sjevm5.pok.ibm.com using port 23

Canon S330 on Ne02:

Start



Address

54%



10:32 AM

Slide 3

VM/Pass-Through Facility

You can select a node with the cursor and press ENTER

L SJEVM5	N BLDGATE	N VM5MSAF	N SJEVM5G	N SJCWSC1	BDC
BDCSF2	BDCV1	BDCV2	CCDN	CCDNDFW	ELINK5
ELINK7	HONE	HONEALT	HONE74	HONE75	HONE80
HONE81	IBMNET	KBS			RETAIN
RETAIN1	RETAIN2	RETAIN3		IN5	RTA
RTAIN	SF1	SF2		/2	SJMMAS1

We are going to logon to a VM system for the workshop.

```

Destination -----> stlvm1_  Port ----->
Route ----->
End Session -----> ####  Language -----> AMENG
Your Identification -----> GRAF804  Nickname ----->
Session Roll -----> ?SELECT  Menu Select -----> ?MENU
PF8= Scroll          CLEAR key = Top Screen          PA1= Exit
PF1=BLDGATE

```

\*\*\*\*> <\*\*\*\*

\*\*\*\*> <\*\*\*\*

MA a 14/038

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start | Info... | Wel... | Ho... | Qar... | Ses... | Address 54% | 10:32 AM

Slide 4 - [24 x 80]

File Edit View Communication Actions Window Help

z/VM ONLINE

z/VM 4.2.0

\*\*\*\*\*  
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 \*\*\*\*\* ++ ++ ++ \*\*\*\*\*

Santa Teresa Assistance:  
 Laboratory 888-IBM-HELP  
 888-426-4357

IBM management approved purposes ONLY.===  
 === Use is subject to audit at any time. ===

Fill in your USERID and PASSWORD and press ENTER  
 (Your password will not appear when you type it)  
 USERID ==>  
 PASSWORD ==>  
 COMMAND ==> d ecdvl50\_

We are going to do the workshop  
 on an EC machine, so dial into  
 ECDVL50

RUNNING STLVM1

23/026

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:  
 Address 54% 10:32 AM

Start Info... Wel... Ho... Qar... Ses...

Slide 5 - [24 x 80]

File Edit View Communication Actions Window Help

```
SSSSSSSSSS      TTTTTTTTTTTTTT  LLL
SSSSSSSSSSSSSS  TTTTTTTTTTTTTT  LLL
  SSS          SS    TTT          LLL
SS            TTT          LLL
SSS          TTT          LLL
SSSSSSSSSS      TTT          LLL
SSSSSSSSSS      TTT          LLL
          SSS          LLL
          SS          LLL
SS          SSS      TTT          LLL
SSSSSSSSSSSSSS  TTT          LLLLLLLLLLLLLLLL
SSSSSSSSSS      TTT          LLLLLLLLLLLLLLLL

DEPARTMENT FFC
COMMON EC SUPPORT

PRESS ENTER KEY FOR LOGON INFORMATION
```

MA a 01/002

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 56% 10:32 AM

Info... Wel... Ho... Qar... Ses...

Slide 6 A - [24 x 80]

File Edit View Communication Actions Window Help

tso\_

ENTER ONE OF THE FOLLOWING VTAM APPLICATION NAMES:

Type TSO

CICS41	- LOGON TO APPLID CICS41
CICS41A	- LOGON TO APPLID CICS41A
CICS41B	- LOGON TO APPLID CICS41B
CICS51	- LOGON TO APPLID CICS51
CICS51A	- LOGON TO APPLID CICS51A
CICS51B	- LOGON TO APPLID CICS51B
CICS52	- LOGON TO APPLID CICS52
CICS52A	- LOGON TO APPLID CICS52A
CICS52B	- LOGON TO APPLID CICS52B
CICS33	- LOGON TO APPLID CICS33
CICS33A	- LOGON TO APPLID CICS33A
CICS33B	- LOGON TO APPLID CICS33B
DCC	- LOGON TO IMS/DCC
IMS	- LOGON TO IMS
LOGON	- LOGON TO TSO
TSO	- LOGON TO TSO
CNM01	- LOGON TO CNM01
RESET	- DETACH FROM SYSTEM

PRESS CLEAR KEY TO RETURN

01/005

Connected to remote server/host sjevm5.pok.ibm.com using port 23

Canon S330 on Ne02:

Start Address 56% 10:33 AM

Info... Wel... Ho... Qar... Ses...

Slide 7 A - [24 x 80]

File Edit View Communication Actions Window Help

IKJ56420I Userid ENTER not autho

Enter LOGON parameters below:

\*Userid ==> usrt020

Password ==> \_

Procedure ==>

Acct Nmbr ==>

Size ==>

Perform ==>

Command ==>

Enter an 'S' before each option desired below:

-Nomail -Nonnotice -Reconnect -OIDcard

PF1/PF13 ==> Help PF3/PF15 ==> Logoff PA1 ==> Attention PA2 ==> Reshow

You may request specific help information by entering a '?' in any entry field

MA a 08/026

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 56% 10:33 AM

Info... Wel... Ho... Qar... Ses...

Enter the userid given to you at the start of the workshop.

PW1DAY is the password for all userids.

Slide 3 A - [24 x 80]

File Edit View Communication Actions Window Help

Menu List Mode Functions Utilities Help

-----

ISPF Command Shell

Enter TSO or Workstation commands below:

==> EX 'VNDO459.HPCA(START)'

Execute the HPCA clist

Place cursor on choice and press enter to Retrieve command

=> EX 'VNDO459.HPCA(START)'

=>

=>

=>

=>

=>

=>

=>

=>

=>

06/007

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 56% 10:33 AM

Info... Wel... Ho... Qar... Ses...



Slide 9 A - [24 x 80]

File Edit View Communication Actions Window Help

Press ENTER to continue.

```
===== *
=====
=====
=====
=====
=====
=====
=====
=====
=====
=====
=====
=====
```

This is the HPCA welcome page.  
Notice that we are working with  
Release V1R2 which will be GA later  
this month.

Information Management System IMS High Performance Change Accumulation  
(IMS HPCA) Version 1 Release 2

-----  
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-----

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MA a 01/001

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 56% 10:33 AM

Info... Wel... Ho... Qar... Ses...

Slide 10 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA-ID/IMS Profile Row 1 to 3 of 3

COMMAND ==> \_\_\_\_\_ SCROLL ==> PAGE

Enter END (PF3) to exit.

To create a new HPCA-ID/IMS profile, enter an HPCA-ID and its description

HPCA-ID: \_\_\_\_\_ Profile Description: \_\_\_\_\_

Enter line command S to select an IMS System for this run  
T to setup DBRC product datasets  
D to delete an HPCA-ID profile

CMD	HPCA-ID	HPCA-ID/IMS Profile Description
_	R61	IMS REL. 6.1, ***TEST ONLY***
_	R81	IMS REL. 8.1, ***TEST ONLY***
s	T020	HPCA WORKSHOP

\*\*\*\*\* Bottom of data \*\*\*\*\*

We are only working with the HPCA Workshop HPCA-ID.

MA a 23/004

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 76% 10:54 AM

In... R... H... Q... S... H...

Slide 14 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA-ID/IMS Profile Row 1 to 3 of 3

COMMAND ==> \_\_\_\_\_ SCROLL ==> PAGE

Enter END (PF3) to exit.

To create a new HPCA-ID/IMS profile, enter an HPCA-ID and its description

HPCA-ID: \_\_\_\_\_ Profile Description: \_\_\_\_\_

Enter line command S to select an IMS System  
 T to setup DBRC product d...  
 D to delete an HPCA-ID pro...

CMD HPCA-ID HPCA-ID/IMS Profile Description

CMD	HPCA-ID	HPCA-ID/IMS Profile Description
-	R61	IMS REL. 6.1, ***TEST ONLY***
-	R81	IMS
-	T020	HPCA

After selecting the HPCA Workshop environment, HPCA goes to interrogate the recons and retrieves the CAGROUPS defined there.

\*\*\* RETRIEVING CAGROUPS FROM RECON \*\*\*

\*\*\*\*\*

MA a X SYSTEM 23/021

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 76% 10:54 AM

In... R... H... Q... S... H...

Slide 12 - [24 x 80]

File Edit View Communication Actions Window Help

PF3 when the selected cagroups have been identified.

HPCA CA Group Selection Row 1 to 9 of 22  
SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:  
 S - Select the CA Group for processing. S \* Select all cagroups  
 U - De-select the CA Group

Enter END (PF3) to exit. Enter CAN to exit without processing.

CA-GROUP	ACTION
CAGRPP1	
CAGRPP2	
CAGRPP3	SELECTED
CAGRPP4	
CAGRPP5	
CAGRPP6	
CAGRP1	SELECTED
CAGRP10	
CAGRP10A	SELECTED

Line Commands affect only a particular cagroup.

Primary Commands affect ALL cagroups found in the recon.

24/004

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:54 AM

In... R... H... Q... S... H...

Slide 13 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ==> \_ SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Sp
- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: These are the selected CAGROUPs from the previous panel >

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
_	CAGRPP3	01	N	CAJCL		
_	CAGRP1	01	N	CAJCL		
_	CAGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

MA a 03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:54 AM

In... R... H... Q... S... H...

Slide 14 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ==> SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters

Primary Commands:

- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
m	CAGRPP3	01	N	CAJCL		
	CGRP1	01	N	CAJCL		
	CGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

20/004

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:54 AM

In... R... H... Q... S... H...

We will start by examining some line commands.

Slide 15 - [24 x 80]

File Edit View Communication Actions Window Help

GENJCL HPCA Key Defaults Member List

COMMAND ===>

Enter Skeletal member names

Enter END (PF3) to exit. Ent

CA-GROUP: CAGRPF3

Defaults skeletal

-----

1. ===> KEYR619C

2. ===> -

3. ===>

4. ===>

5. ===>

6. ===>

7. ===>

8. ===>

9. ===>

10. ===>

This is the member name found in the skeleton JCL dataset that contains default definitions.

You will have the opportunity to browse this at the end of the workshop.

15/014

Connected to remote server/host sjevm5.pok.ibm.com using port 23

Canon S330 on Ne02:

Start Address 77% 10:54 AM

In... R... H... Q... S... H...

Slide 16 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ===> SCROLL ===> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters
- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA

HPCA-ID: T020 DEFAULT VOLNUM ===>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR
---	---	---	---	---
	CAGRPF3	01	N	CAJCL
k	CAGRP1	01	N	CAJCL
	CAGRP10A	01	N	CAJCL

\*\*\*\*\* Bottom of data \*\*\*\*\*

M and K are the two line commands which are of interest.

You saw the result of M in the previous screen. Let's look at K in the next screen.

MA a 21/004

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:54 AM

In... R... H... Q... S... H...



Slide 17 - [24 x 80]

File Edit View Communication Actions Window Help

GENJCL HPCA User Keys Row 1 to 2 of 2  
COMMAND ==> \_ SCROLL ==> PAGE

Enter the values for displayed Userkeys.  
Enter END (PF3) to exit. Enter CAN to exit without processing.

CA-GROUP: CAGRP1 Skeletal Member:

Userkey	Key value
%USERID	
%CANFSEQ	

\*\*\*\*\* These are the user defined keys that are found in the change accum skeleton jcl members. \*\*\*\*\* tom of data \*\*\*\*\*

MA a 03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:54 AM

In... R... H... Q... S... H...

Slide 18 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 2 to 3 of 3

COMMAND ==> set\_ SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands:

- M - Display keywords
- K - Keywords
- L - Allocate
- S - Specify S...

The SET primary command is used to define the runtime environment for all the cagroups selected in this session.

Primary Commands:

- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
—	CAGRP1	01	N	CAJCL		
—	CAGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

MA a 03/018

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:55 AM

In... R... H... Q... S... H...

Slide 19 - [24 x 80]

File Edit View Communication Actions Window Help

SETUP HPCA Setup Selection Menu

Command ===>

Enter a selection option. Enter END (PF3) to exit.

HPCA-ID: T020

Option. . . . a

- 1. - JCL Job statements
- 2. - Global Control Parameters
- 3. - SORT Parameters
- 4. - Reserved
- 5. - LOG SPILL Parameters
- 6. - LOG SPILL Dataset Allocation Parameters
- 7. - Reserved
- 8. - Fastpath Work Dataset Allocation Parameters
- 9. - Reserved
- A. - ALL of the above in succession

You can choose to look at each option individually or you can choose all of

MA a 10/019

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:55 AM

In... R... H... Q... S... H...

Slide 21 - [24 x 80]

File Edit View Communication Actions Window Help

These are throttles to govern the use of resources. Input tasks will limit the number of tape drives if the logs are on tape.

Output tasks are SORT address spaces.

```
SETUP          HPCA Global Control Parameters
COMMAND ==>
xxx
Enter END (PF3) to exit. Enter CAN to exit with

Global Control Parameters for CA-GROUP: ALL
  Max. number of input tasks: 9      (1-19. Default 9)
  Max. number of output tasks: 9     (1-19. Default 9)

  CA termination method: R          (A=ABEND, R=RC. Default R)
  I/O buffers for input datasets: 25 (1-255. Default 25)
  I/O buffers for output datasets: 25 (1-255. Default 25)

  HPCA Message dataset prefix: SYSOUT (Default SYSOUT)
  SORT Library specification if not in LINKLIB:
  SORT Load Library DName:

  Write SMF records: F             (F=FULL,N=NO,S=SHORT.Default N)
```

03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:55 AM

In... R... H... Q... S... H...

Slide 22 - [24 x 80]

File Edit View Communication Actions Window Help

SETUP HPCA SORT Parameters

COMMAND ==> \_\_\_\_\_

Enter END (PF3) to exit. Enter CAN to exit without processing.

SORT Parameters for CA-GROUP: ALL

SORT filesize:	100000	(5000 thru 10**13-1. Def. 100000)
Main Storage for SORT:	4	(1-2000. Default 4)
Number of SORT work datasets:	4	(2-256. Default 4)
SORT Hiperspace usage size:	0	(0,0-9999,0%-100%. Default 0)

Parameters to create DBRC Utility Control ID Statement:

Max. root sequence field len:	_____	(1-256. Default blank)
Maximum lrecl:	_____	(1-99999. Default blank)

Information which will be used by SORT. Note: Filesize is an estimate not an absolute parm passed to SORT.

03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:55 AM

In... R... H... Q... S... H...

Slide 22 - [24 x 80]

File Edit View Communication Actions Window Help

SETUP HPCA SORT Parameters

COMMAND ==> \_\_\_\_\_

Enter END (PF3) to exit. Enter CAN to exit without processing.

SORT Parameters for CA-GROUP: ALL

SORT filesize:	100000	(5000 thru 10**13-1. Def. 100000)
Main Storage for SORT:	4	(1-2000. Default 4)
Number of SORT work datasets:	4	(2-256. Default 4)
SORT Hiperspace usage size:	0	(0,0-9999,0%-100%. Default 0)

Parameters to create DBRC Utility Control ID Statement:

Max. root sequence field len:	_____	(1-256. Default blank)
Maximum lrecl:	_____	(1-99999. Default blank)

Information which will be used by SORT. Note: Filesize is an estimate not an absolute parm passed to SORT.

03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:55 AM

In... R... H... Q... S... H...

Slide 23 - [24 x 80]

File Edit View Communication Actions Window Help

SETUP HPCA LOG SPILL Parameters SCROLL ==> PAGE  
COMMAND ==> \_\_\_\_\_

Enter END (PF3) to exit. Enter CAN to exit without processing.

Log Spill dataset allocation parameters for CA-GROUP: ALL

LOG SPILL DSN prefix: USRT020  
Number of Spill I/O buffers: 25 (1-255. Default 25)

Spill files are used when the number of CAGROUPS exceeds the number of output tasks defined.

02/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 77% 10:55 AM

In... R... H... Q... S... H...

Slide 24 - [24 x 80]

File Edit View Communication Actions Window Help

SETUP HPCA LOG SPILL Dataset Allocation Parameters Row 1 to 2 of 2  
COMMAND ==> \_\_\_\_\_ SCROLL ==> PAGE

Enter END (PF3) to exit. Enter CAN to exit without processing.

Log Spill dataset allocation parameters for CA-GROUP: ALL

Max number of SPILL volumes: 4 (1-9. Default 4)  
Management class . . . . . : \_\_\_\_\_ (Blank for default management class)  
Storage class . . . . . : \_\_\_\_\_ (Blank for default storage class)  
Device type . . . . . : \_\_\_\_\_ (Generic unit or device address)  
Data class . . . . . : \_\_\_\_\_ (Blank for default data class)  
Space units . . . . . : CYLS (TRKS, CYLS)  
Primary quantity . . . . . : 5 (In above units)  
Secondary quantity . . . . . : 5 (In above units)

Volumes:  
==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_  
==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_

\*\*\*\*\* Bottom of page \*\*\*\*\*

These parameters define the characteristics of the spill files.

02/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:55 AM

In... R... H... Q... S... H...



Slide 25 - [24 x 80]

File Edit View Communication Actions Window Help

SETUP FAST PATH Work Dataset Allocation Parameters Row 1 to 2 of 2  
 COMMAND ==> \_\_\_\_\_ SCROLL ==> PAGE

Enter END (PF3) to exit. Enter CAN to exit without processing.

Work Dataset name prefix: USRT020  
 Number of Output units: 2 (1-9. Default 2)

Management class . . . . . : \_\_\_\_\_ (Blank for default management class  
 Storage class . . . . . : \_\_\_\_\_ (Blank for default storage class  
 Device type . . . . . : \_\_\_\_\_ (Generic unit or device address  
 Data class . . . . . : \_\_\_\_\_ (Blank for default data class  
 Space units . . . . . : CYLS (TRKS, CYLS)  
 Primary quantity . . . . . : 5 (In above units)  
 Secondary quantity . . . . . : 5 (In above units)

Volumes:  
 ==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_  
 ==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_ ==> \_\_\_\_\_

\*\*\*\*\* Bottom \*\*\*\*\*

After entering the parameters for this panel, PF3 returns us to the CAGROUP selection panel

These parameters are similar and define the characteristics of the Fast Past spill files.

02/015

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:55 AM

In... R... H... Q... S... H...

Slide 26 - [24 x 80]

File Edit View Communication Actions Window Help

ENV primary command displays all of the information from the setup panels.

Row 1 to 3 of 3

COMMAND ==> env\_ SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters

Primary Commands:

- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
—	CAGRPP3	01	N	CAJCL		
—	CAGRP1	01	N	CAJCL		
—	CAGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

MA a 03/018

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:55 AM

In... R... H... Q... S... H...

Slide 27 - [24 x 80]

File Edit View Communication Actions Window Help

COMMAND ==> \_ Row 1 to 15 of 42  
SCROLL ==> PAGE

Enter END (PF3) to exit.

Environment Parameter	: Current Allocation
-----DBRC UTILITY CONTROL DATASETS-----	
HPCA-ID	: T020
HPCA-ID DESCRIPTOR	: HPCA WORKSHOP
HPCA DEFAULT VOLNUM COUNT	:
DBRC LOAD LIBRARY	: ' IMSBLD.I71RTS27.CRESLIB '
SKELETAL LIBRARY	: ' USRT020.HPCAUS.CNTL '
DYNAMIC ALLOC OF RECONS FLAG	: N
DFSMDS LOAD LIBRARY	:
RECON - 1 DATASET	: ' IMSTESTL.IMS.RECON1 '
RECON - 2 DATASET	: ' IMSTESTL.IMS.RECON2 '
RECON - 3 DATASET	: ' IMSTESTL.IMS.RECON3 '
-----HPCA PRODUCT LIBRARIES-----	

This panel and the following (scrollable) panels allow you to see the current assigned values.

03/015

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Start Address 78% 10:55 AM

In... R... H... Q... S... H...

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File Edit View Communication Actions Window Help

HPCA Current Environment data Row 16 to 30 of 42

COMMAND ==> \_ SCROLL ==> PAGE

Enter END (PF3) to exit.

Environment Parameter : Current Allocation

-----

HPCA PRODUCT LOADLIB : 'VNDO459.HPC150.SHPCLMD0'  
HPCA CONTROL DATASET : 'USRT020.HPCAUS.CONTROL'

-----JES AND JOBCARDS-----

JOB ENTRY SYSTEM : JES2  
JOB CARD - 1 : //T020HPCA JOB ,  
JOB CARD - 2 : // CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),  
JOB CARD - 3 : // REGION=0M,TIME=30,NOTIFY=USRT020  
JOB CARD - 4 : //\*JOBLIB DD DISP=SHR,DSN=IMSBLD.I71RTS27.CRE  
JOB CARD - 5 : /\*MESSAGE \*\*\*\*\*  
JOB CARD - 6 : /\*MESSAGE ==> MIXED MODE TEST <=== \*  
JOB CARD - 7 : /\*MESSAGE \*\*\*\*\*  
JOB CARD - 8 : /\*MESSAGE \*\*\* START OF HPCA UTILITY \*\*\*

MA a 03/015

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In... R... H... Q... S... H...

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File Edit View Communication Actions Window Help

COMMAND ==> \_ SCROLL ==> PAGE

Enter END (PF3) to exit.

Environment Parameter : Current Allocation  
-----  
STARTED TASK PROCLIB : 'USER.PRIVATE.PROCLIB'  
STARTED TASK JCLLIB :  
-----

-----HPCA CONTROL PARAMETERS-----

MAX NUMBER OF LOG READ TASKS : 9  
MAX NUMBER OF SORT TASKS : 9  
HPCA TERMINATION METHOD : R  
NUMBER OF INPUT BUFFERS : 25  
NUMBER OF OUTPUT BUFFERS : 25  
SORT LOAD LIBRARY :  
WHETHER SMF RECORDS WRITTEN : F  
\*\*\*\*\* Bottom of data \*\*\*\*\*

03/015

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In... R... H... Q... S... H...

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File Edit View Communication Actions Window Help

HPCA Current Environment data Row 31 to 42 of 42

COMMAND ==> \_ SCROLL ==> PAGE

Enter END (PF3) to exit.

PF3 to return to the cagropup selection panel.

```
      : Current Allocation
      : -----
      : 'USER.PRIVATE.PROCLIB'
      :
-----HPCA CONTROL PARAMETERS-----
MAX NUMBER OF LOG READ TASKS : 9
MAX NUMBER OF SORT TASKS    : 9
HPCA TERMINATION METHOD      : R
NUMBER OF INPUT BUFFERS     : 25
NUMBER OF OUTPUT BUFFERS    : 25
SORT LOAD LIBRARY           :
WHETHER SMF RECORDS WRITTEN : F
***** Bottom of data *****
```

MA a 03/015

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Start Address 78% 10:56 AM

In... R... H... Q... S... H...

Slide 31 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ==> GEN SCROLL ==> PAGE

Enter one of the following commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:

- M - Display
- K - Keywords
- L - Allocate
- S - Specify
- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
_	CAGRPF3	01	N	CAJCL		

We now use the GEN primary command to ask DBRC to generate the JCL to run change accumulation for each of the selected cagroups.

MA a X SYSTEM 21/001

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:56 AM

In... R... H... Q... S... H...

Slide 32 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups GEN Command completed

COMMAND ==> \_ SCROLL ==> PAGE

Enter one of

Line Command

M - Display environment

K - Keywords

L - Allocate Log Spill Datasets

S - Specify SORT Parameters

GEN Generate CA-JCL

ENV Show environment parms

FAST Execute HPCA

RUN Submit generated CA-JCL

STAT Retrieve status of CA-job

BAT Create Control parameters

SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
_	CAGRPP3	01	N	CAJCL		
_	CGRP1	01	N	CAJCL		
_	CGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

MA a 03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:56 AM

In... R... H... Q... S... H...

The GEN Command completed message shows that we have successfully created the JCL procedures. If DBRC indicates error conditions, the DBRC listing file is displayed and you have the option to cancel or continue.



Slide 33 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups GEN Command completed

COMMAND ==> run SCROLL ==> PAGE

Enter one of the following commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:

- M - Display
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters
- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
_	CAGRPF3	01	N	CAJCL		

Now the RUN command will submit the JCL that we have just created.

MA a X SYSTEM 21/001

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:56 AM

In... R... H... Q... S... H...

Slide 34 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups JOB submitted

COMMAND ==> \_ SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END

Again, we are successful.

Line Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters

Primary Commands:

- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
_	CAGRPF3	01	N	CAJCL		
_	CGRP1	01	N	CAJCL		
_	CGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

MA a 03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start | In... | R... | H... | Q... | S... | H... | Address 78% | 10:56 AM

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File Edit View Communication Actions Window Help

Now use the STAT command to view the job status.

JOB submitted

COMMAND ==> stat SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters

Primary Commands:

- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
—	CAGRPF3	01	N	CAJCL		
—	CAGRP1	01	N	CAJCL		
—	CAGRP10A	01	N	CAJCL		

\*\*\*\*\* Bottom of data \*\*\*\*\*

MA a 03/019

Connected to remote server/host stlmvs1.stl.ibm.com using port 23

Start Address 100% 5:04 PM

Infopri... Raquel... Qarbo... Sessio...

Slide 36 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA JOB Status Display Row 1 to 1 of 1

COMMAND ==> \_\_\_\_\_ SCROLL ==> PAGE

Press END to exit.

JOB Status  
-----  
JOB T020HPCA(JOB00347) ON OUTPUT QUEUE  
\*\*\*\*\* Bottom of data \*\*\*\*\*

In this case, the JOB has already completed and is available in the JES output queue.

03/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:57 AM

In... R... H... Q... S... H...

Slide 37 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ==> GEN SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters
- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- RT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT

CMD	CAGROUP	PRTY	REUSE	NAME
-	CAGRPF3	01	N	
-	CGRP1	01	N	CAJCL
-	CGRP10A	01		

\*\*\*\*\* GENJCL IN PROGRESS \*\*\*\*\*

This popup appears while HPCA creates your jcl.

MA a X SYSTEM 23/021

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 78% 10:57 AM

In... R... H... Q... S... H...

Slide 38 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ==> FAST SCROLL ==> PAGE

Enter one of the following commands. Enter END (PF3) to exit.

Line Commands:

- M - Display
- K - Keywords
- L - Allocate
- S - Specify

Primary Commands:

- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters

The FAST command combines GEN and RUN. Using this command does not allow you to review the the DBRC GENJCL process before submitting the JCL.

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VO
—	CAGRPF3	01	N	CAJCL	
—	CAGRP1	01	N	CAJCL	
—	CAGRP10A	01			

\*\*\*\*\* GENJCL IN PROGRESS \*\*\*\*\*

Note the same "GENJCL IN PROGRESS" message that was seen for the GEN command.

MA a X SYSTEM 23/021

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 79% 10:57 AM

In... R... H... Q... S... H...

Slide 39 - [24 x 80]

File Edit View Communication Actions Window Help

HPCA Selected CA Groups Row 1 to 3 of 3

COMMAND ==> FAST SCROLL ==> PAGE

Enter one of the Line or Primary commands. Enter END (PF3) to exit.

Line Commands: Primary Commands:

- M - Display key defaults member list
- K - Keywords
- L - Allocate Log Spill Datasets
- S - Specify SORT Parameters
- SET Setup run time environment
- GEN Generate CA-JCL
- ENV Show environment parms
- FAST Execute HPCA
- RUN Submit generated CA-JCL
- STAT Retrieve status of CA-job
- BAT Create Control parameters
- SORT Display by CAGROUP or PRTY

HPCA-ID: T020 DEFAULT VOLNUM ==>

CMD	CAGROUP	PRTY	REUSE	SKEL.MBR	VOLNUM	CATIME
---	---	---	---	---	---	---
	CAGRFP3	01	N	CAJCL		
11.00.33	JOB00351	\$HASP165	T020HPCA	ENDED AT STL1	MAXCC=0	CN(INTERNAL)

And the submitted JOB has also run to completion.

MA a X SYSTEM 22/001

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 79% 10:57 AM

In... R... H... Q... S... H...

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File Edit View Communication Actions Window Help

Menu RefList RefMode Utilities Help

-----

Data Set List Utility

Option ==> \_

blank Display data set list  
V Display VTOC information

Enter one or both of the parameters below:  
Dsname Level . . . USRT020.HPCAWS.CNTL  
Volume serial . . .

Data set list options  
Initial View . . . 1 1. Volume  
2. Space  
3. Attrib  
4. Total

When the data set list is displayed, enter either:  
"/" on the data set list command field for the command prompt pop-up,  
an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or  
"=" to execute the previous command.

Now split the screen and select option 3.4 Data Set List.

This dataset has the member which we will now use to demonstrate the Extended Batch feature of HPCA V1R2.

05/014

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 80% 10:58 AM

In... R... H... Q... S... H...



Slide 41 - [24 x 80]

File Edit View Communication Actions Window Help

Menu Functions Confirm Utilities Help

BROWSE USRT020.HPCAWS.CNTL Row 00001 of 00005  
Command ==> Scroll ==> PAGE

Name	Reempt	Size	Created	Changed	ID
BATCH			2003/07/22	2003/07/23 13:07:42	USRT007
CAICE69C	Select the BATCH member		2001/10/25	2003/07/23 13:07:43	USRT007
CAJCL			2001/10/17	2003/07/22 15:26:36	VNDO459
JOBJCL			2003/07/22	2003/07/22 14:25:10	VNDO459
KEYR619C		9	2001/11/09	2003/07/23 13:07:45	USRT007

\*\*End\*\*

05/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 80% 10:58 AM

In... R... H... Q... S... H...

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File Edit View Communication Actions Window Help

Menu Utilities Compilers Help

```

BROWSE  USRT020.HPCAWS.C
Command ==> _
*****
//B020HPCA JOB
//          CLASS=A,MSGCLASS=
//          REGION=0M,TIME=30
//*JOB LIB DD DISP=SHR,DSN=
//*****
//*          HPCA BATCH J
//*****
//*
//S1          EXEC PGM=HPCAMAIN,PARM='B020'
//*TEPLIB DD DSN=IMSVS.I71STS27.DFSMDA,DISP=SHR ==> DYNALC OF RECONS
//*          DISP=SHR
//STEPLIB DD DSN=IMBLD.I71RTS27.CRESLIB,DISP=SHR DBRC LOAD LIB
//          DD DSN=VNDO459.HPC150.SHPC LMD0,DISP=SHR
//RECON1 DD DISP=SHR,DSN=IMSTESTL.IMS.RECON1
//RECON2 DD DISP=SHR,DSN=IMSTESTL.IMS.RECON2
//RECON3 DD DISP=SHR,DSN=IMSTESTL.IMS.RECON3
//HPCACTL DD DSN=&SYSUID..HPCAWS.CONTROL,DISP=SHR
//SYSIN DD DSN=&SYSUID..HPCAWS.SYSIN,DISP=SHR

```

Line 00000000 Col 001 080  
Scroll ==> CSR

HPCAMAIN is the Extended Batch interface of HPCA. With JCL and control statements, you can perform all of the previous interactive steps without requiring ISPF.

MA a 05/015

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 80% 10:58 AM

In... R... H... Q... S... H...

Slide 48 - [24 x 80]

File Edit View Communication Actions Window Help

Menu Utilities Compilers Help

```
BROWSE USRT020.HPCAWS.CNTL(BATCH) - 01.16 Line 00000019 Col 001 080
Command ==> Scroll ==> CSR
//SYSPRINT DD DSN=&SYSUID..HPCAWS.SYSPRINT,DISP=SHR 00190009
//JCLOUT DD DSN=&SYSUID..HPCAWS.JCLOUT,DISP=SHR 00191000
//JCLPDS DD DISP=SHR,DSN=USRT020.HPCAWS.CNTL 00200016
//SYSOUT DD DUMMY,LRECL=121 HPCA MESSAGES 00230000
//HPCAPROC DD DISP=SHR,DSN=USER.PRIVATE.PROCLIB PROCEDURES 00240000
//*HPCAJLIB DD DSN=USER.JOB... CA JOBS 00250000
//SYSUDUMP DD SYSOUT=H 00260000
//HPCMSG00 DD SYSOUT=H 00261000
//HPCPRINT DD SYSOUT=H 00261100
//HPCSYSIN DD * 00261300
* S A M P L E C O N T R O L S T A T E M E N T F I L E 00261500
* This is a sample control statement input file used for the HPCA 00261703
* workshop demonstration. Most values could have been defaulted, 00261803
* but are shown here to illustrate their usage. 00261903
* Global parameters 00263000
* MAXIMUM LOGS = number default = N/A, range 1-999 00264100
```

JCL defines the files used for HPCA and DBRC functions.

MA a 05/015

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 80% 10:58 AM

In... R... H... Q... S... H...

Slide 44 - [24 x 80]

File Edit View Communication Actions Window Help

Menu Utilities Compilers Help

```

BROWSE USRT020.HPCAWS.CNTL(BATCH) - 01.16 Line 00000038 Col 001 080
Command ==> Scroll ==> CSR
* PARALLEL LOGS = number default = 9, range = 1-19 00264200
* PARALLEL SORTS = number default = 9, range = 1-19 00264300
* UNIT = name default = SYSDA 00264400
    Maximum Logs = 25 00264500
    Parallel Logs = 4 00264600
    Parallel Sorts = 6 00264700
    Unit = 3390 00264800
* JOB statement 00264900
* Job = . . . default = N/A, repeat for 1 to 7 lines 00265000
Job = //TESTMAIN JOB , 00265100
Job = // CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1), 00265200
Job = // REGION=0M,TIME=30,NOTIFY=USRT020 00265300
* Sort parameters 00265416
* DYNALLOC COUNT = number default = 4, range = 1-16 00265500
* FILSZ = number default = 100000, range = 5000-999999999 00265600
* HIPRMAX = value default = 0, value is DFSORT defined 00265700
* MAINSIZE = number default = 4, range = 1-2000 00265800
  
```

Control statements replace the ISPF parameters.

MA a 05/015

Connected to remote server/host sjevm5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 80% 10:58 AM

In... R... H... Q... S... H...

Slide 45 - [24 x 80]

File Edit View Communication Actions Window Help

Menu Utilities Com

BROWSE USRT020.HPCA  
Command ==> sub

Submit JCL to run HPCA in batch mode. This is equivalent to performing a GEN/RUN or FAST from the ISPF HPCA panels.

```
*****  
//B020HPCA JOB ,  
//          CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),  
//          REGION=0M,TIME=30,NOTIFY=USRT020  
//*JOB LIB DD DISP=SHR,DSN=IMSB LD.I71RTS27.CRES LIB  
//*****  
//*          HPCA BATCH JOB  
//*****  
/*  
//S1          EXEC PGM=HPCAMAIN,PARM='B020'  
//*TEPLIB DD DSN=IMSVS.I71STS27.DFSMDA,DISP=SHR ==> DYNALC OF RECONS  
//*          DISP=SHR  
//STEPLIB DD DSN=IMSB LD.I71RTS27.CRES LIB,DISP=SHR DBRC LOAD LIB  
//          DD DSN=VNDO459.HPC150.SHPCLMD0,DISP=SHR  
//RECON1 DD DISP=SHR,DSN=IMSTESTL.IMS.RECON1  
JOB B020HPCA(JOB00216) SUBMITTED  
***
```

000000 Col 001 080  
Scroll ==> PAGE  
00010019  
00020000  
00030019  
00040000  
00050000  
00060000  
00070000  
00080000  
00090019  
00100000  
00110000  
00120000  
00130000  
0014000

Job is submitted and may be monitored for completion.

MA a 22/006

Connected to remote server/host sjevms5.pok.ibm.com using port 23 Canon S330 on Ne02:

Start Address 100% 5:18 PM

Infopri... Raquel... IBM In... Sessio...

**This concludes the IMS High Performance Change Accumulation Workshop. We have shown the necessary steps to run HPCA interactively using the ISPF interface. We have also illustrated the use of the batch interface to accomplish the same functions.**