

# Building Job Relationships

- Triggering
  - Job Triggering
  - Dataset Triggering
- Predecessor
  - Job Predecessor
  - Dataset Predecessor

# Job Triggering

- Job triggering panel permits multiple trigger entries. Multiple SCHID triggers can be entered on one screen

## Functions:

- **FORMAT** - Clears the screen of input data
- **LIST** - Displays all existing SCHID's with one per screen
- **UPD** - Updates the job triggers

# Job Triggering Panel (Cont.)

## Parameters

- **JOB** - The job that will do the triggering
- **OPT** - Values for the Options column (A-Add; D-Delete; U-Update)
- **SCHID** - Schedule ID for the job that will do triggering
- **TRGD-JOB** - The name of the job that will be triggered.
- **TRIGID** - A unique value for the job that will be triggered.
- **DOTM** - Time that the job should be completed; includes elapsed time and CA-7 queue time.
- **QTM** - Queue time
- **LDTM** - Lead time
- **SBTM** - Submit time
- **EXCEPTIONS** - Free-form comments

# Verifying the Job Structure

**FSTRUC** - This command produces a report displaying the entire job flow.

**FSTRUC, FROM=, JOB=, TRIG=, SCHID=, LIST=**

**FROM** - Beginning date and time(mmddyy,hhmm)

**JOB** - Specifies the job name for the forecast

**TRIG** - Identifies what type of triggered job included

(J-Only job triggered jobs; D-Only dataset triggered; DJ-Both Job and Dataset triggered jobs; N-Neither job or dataset triggered included)

**SCHID** - Identifies the Schedule Id (1-255)

**LIST** - Specifies the optional contents of the structure

(**LAST** - only first and last jobs in the structure. **ALL** - whole job structure)

# Dataset Triggering Panel

- The dataset triggering panel permits a single dataset to trigger multiple jobs.
- This identical to Job triggering panel parameters with exception of the DSN and DSNBR fields

## Parameters:

- **DSN** - Dataset name whose creation will initiate the execution of a job. This dataset must be created by a CA-7 job.
- **DSNBR** - CA-7 assigned dataset number.

# Job Predecessor

- Creating a job predecessor is done through the Database maintenance menu. DB.3

**Dataset Predecessor** - Use to establish a dataset requirement for a job.

## Functions:

- **FORMAT** - Use to clear the screen
- **LIST** - Use to display information about existing job predecessors
- **UPD** - Use to modify or change existing job predecessors

# Maintec Job Predecessor (Cont.)

## Fields:

- **PRED FOR JOB** - The job for which the job requirement are being defined of listed
- **LIST-SCHID** - Applies only to the LIST function (SCHID=0 for All schedules)
- **LEADTM** - Lead time in hours
- **PRED-JOB** - Names the job on which the job specified in the Job field is dependent
- **NEXT-RUN** - Indicates status of this predecessor for the next run of this job

# Maintec Job Predecessor (Cont.)

## Options

- A = Add - Use to create a new relationship
- D = Delete - Use to delete a relationship
- U = Update - Use to modify an existing relationship
- \* = Processed - Indicates successful relationship established
- ? = Error - Indicates an error was found while processing the predecessor request



# Verifying the Job Predecessor

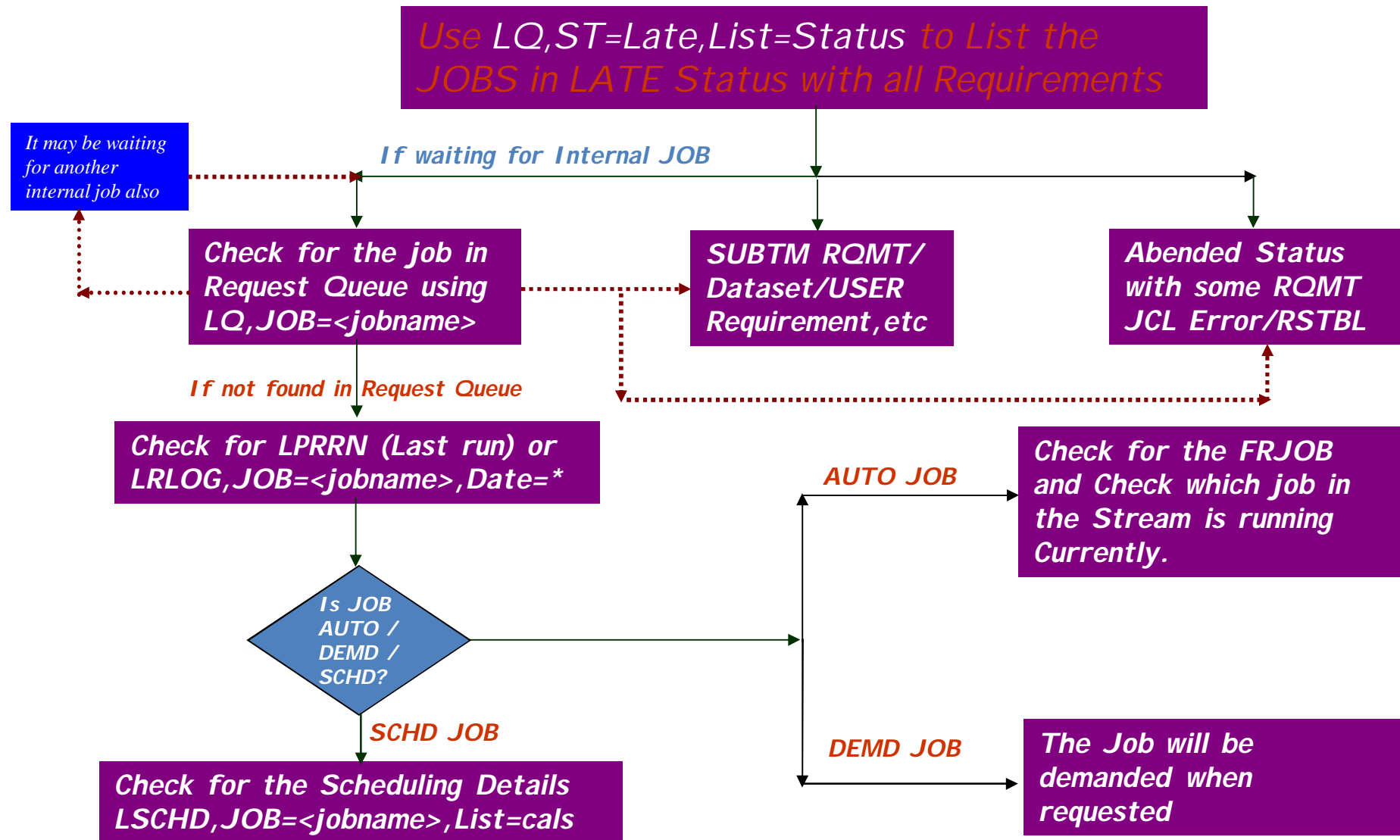
## **LJOB,JOB=,LIST=RQMT**

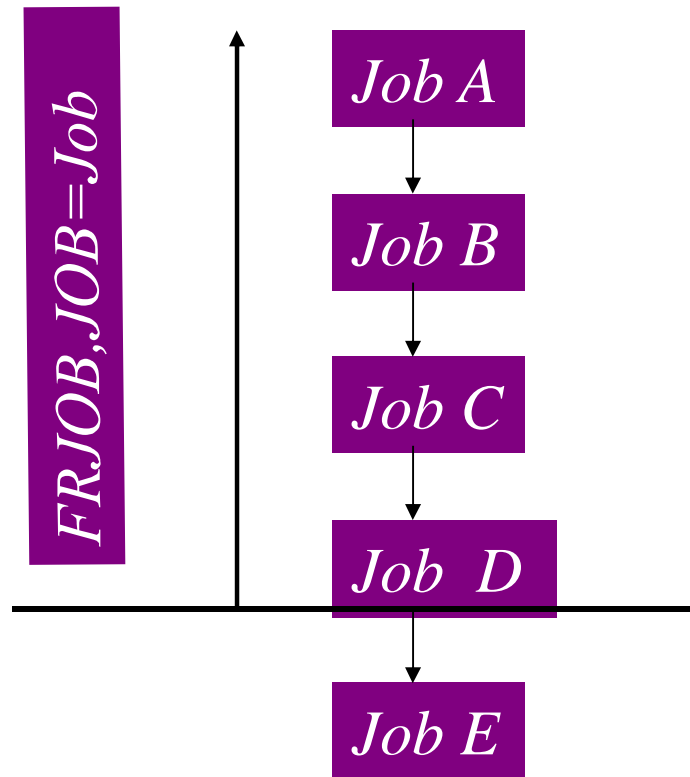
- **JOB** - Identifies the job name for the requirements
- **LIST=RQMT** - Provides details regarding the requirements and network connections for the specified job.

## CA-7 Procedures

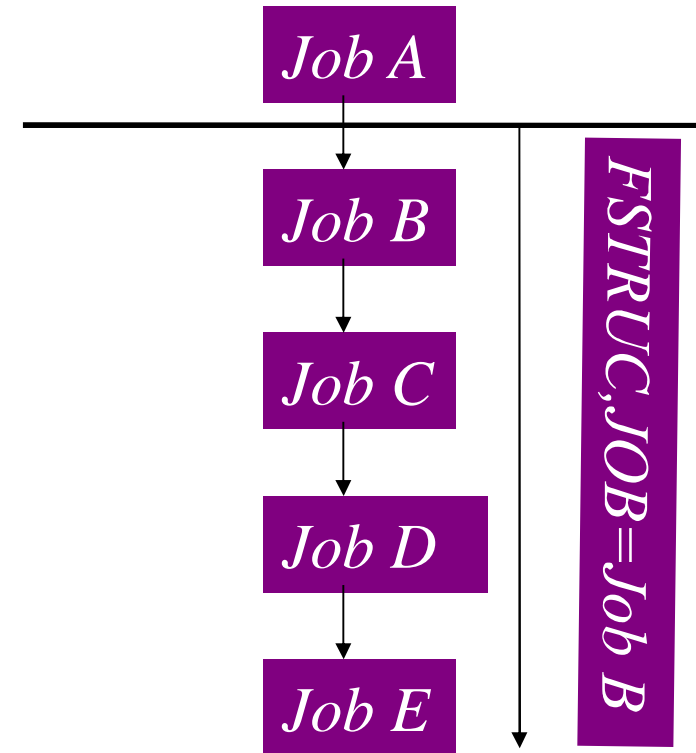


*Late jobs...  
Forecasting?  
Jobs on Hold...*





*Reverse Structured Format: Job D is triggered by Job C Job C is triggered by Job B Job B is triggered by Job A*



*Forward Structured Format: Job B is triggering Job C Job C is triggering Job D Job C is triggering Job E*

*check the Lead time*

- using the db.3.2 or jobconn, job we can view the LDTM (look back time).
- Note that, db.3.2 or jobconn, job do the same function; and db.3.6 or jobconn, usr do the same function.

*Add Requirements*

- To Put the job on Hold when it is not on the Request queue.
  - Use db.3.6 or jobconn,usr panel and add the user requirement.
- To add Request / Job dependencies, use the ADDRQ command as follows:  
`addrq,job=<job name/job num>,depjob=<jobname>,usr=<text>`

*Various Requirements can be viewed in XQM Panel*

*J → internal job requirement*

*I → Internal Dataset requirement*

*E → External Dataset Requirement*

*U → User requirement*

*N → Network Requirement*

*S → Submit Requirement*

*H → Hold requirement*

*J → JCL Override requirement*

*V → Manual Verification requirement*

Different ways to put the jobs on HOLD:

1. Add the user requirement using ADDRQ command.
2. Go to XQM Panel and put 'h' wherever needed.
3. Go to Job definition Panel, and mark HOLD as Y. This is to put a job on Permanent hold.
4. Using DB.3.6, we can add the user requirement.
5. Use the HOLD command to put the job on hold.

Note: xqm,fill=h is used to put all the jobs on hold in the queue.

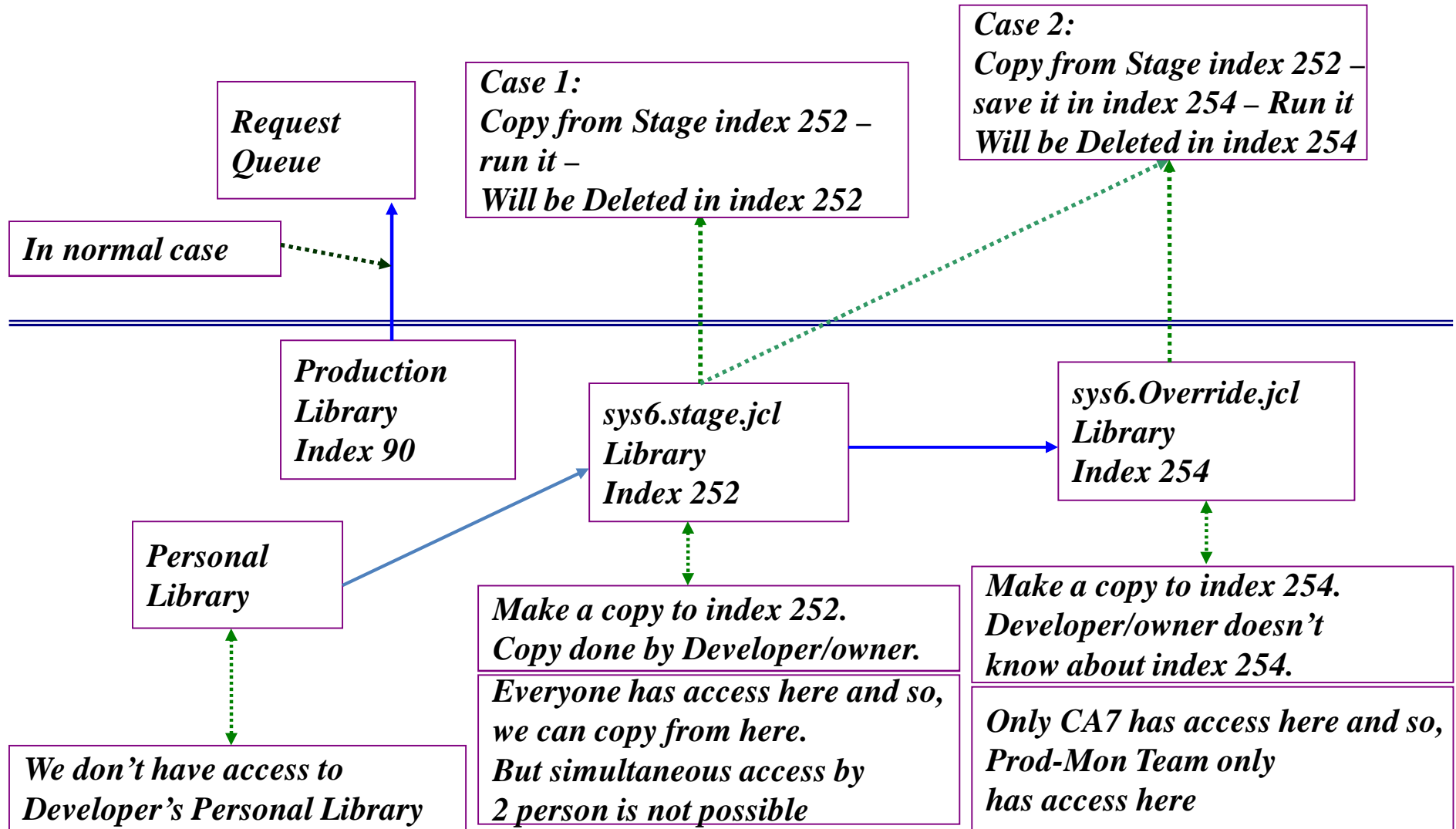
To cancel a Job in the ACTIVE Queue:

- Go to Spool & put C or P for that job and Cancel it, and then,
- Come to XQM Panel, then Force Complete it.
- In General to cancel a Job use the following command:  
Cancel,job=<jobname/job no.>,force=yes,reason=<text>
- Why Force=Yes, is necessary, when Canceling a Job?
- The FORCE=yes option is used when the job is in a skeleton status or when the Job is running under CA-11. It is used to clear the contents CMT, else, if the job abends, the job is cancelled, but the contents of the CMT is not deleted.





*Fig: Over view of Stage & Index Library*



## ***Different Methods to run the jobs***

To Demand the job with hold from Production library (index 90):

**Command:** demandh,job=jobname,schid=<Num>,set=ntr,time=\*\*\*\*

**Note:** Set= ntr → will bypass the triggers. It is optional.

Steps to be followed to run the job from Stage library (index 252):

1. Check whether the job is defined in CA7. → if Ca7 defined Job,then:
2. Steps: JCL →Fetch (from index 252)→ Save (to Index 254) → Demand the Job with / without Hold.

## ***Different Methods to run the jobs***

Steps to be followed to run the job from Override library (index 254):

1. Check whether the job is defined in CA7. → if Ca7 defined Job, then:
2. Steps : JCL → Fetch (from index 252) → repl (replace in Index 254) → Demand the Job with / without Hold.

Use → JOB, <jobname> → to Check whether the job is defined in CA7.

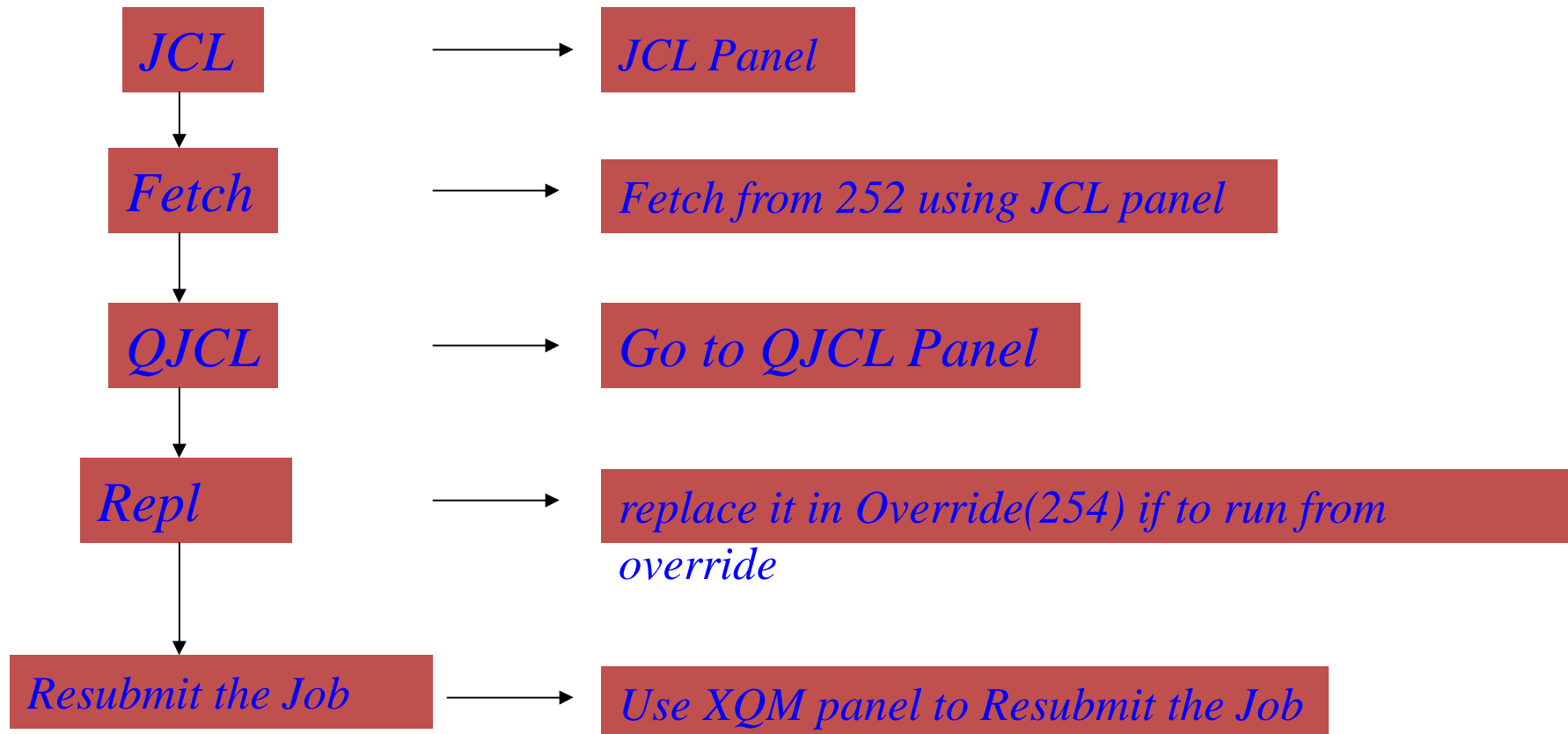
Note: its advisable to demand the jobs with Hold.

*Steps to be followed to run the abended job →*

*from Stage / override library (index 252 / 254):*

*1. Check whether the job is defined in CA7. → if Ca7 defined Job, then:*

*2. Steps to be followed in Pictorial form:*



Steps to be followed to run the a Non CA7 job →

1. Check whether the job is defined in CA7 . → if not a Ca7 defined Job,then:
2. Steps to be followed in Pictorial form :





# Regular CA7 Commands

Command	Purpose	Notes
<b>LJOB,JOB=*****</b>	Listing of job information.	
<b>LPRRN,JOB=*****</b>	Listing of last successful run	
<b>XQJ</b>	Gives list of jobs in queue	
<b>LRDY</b>	Lists jobs awaiting execution	
<b>CANCEL,JOB=Y****</b>	Cancels job off the queue	
<b>/LOGON &amp; /LOGOFF</b>	Logs on and off CA-7.	
<b>HELP</b>	Gives help on commands, syntax, etc.	Once HELP has been typed, user should then type $\Rightarrow$ Y and 1 to allow access to the correct screen.
<b>DEMAND(H),JOB=Y***</b>	Demands (hold[H] is optional) job into CA7. If [H] is used then it will wait in the XQJ screen until released.	Should be used in conjunction with SCHID=0xx if job is to be run on a particular day.

# Maintenance Other Useful CA7 Commands

Command	Purpose	Notes
/DISPLAY,Q=ALL	Shows information on the queue.	
...LIST=ALL	Shows everything for that job	Format:
...LIST=NODD	Shows everything except DD	LJOB,JOB=PID****,LIST=NOD
...LIST=TRIG	Shows trigger information only	D
...LIST=SID***	Shows triggers under 1 schedule ID only	
LSCHD,JOB=DID****	Lists every job on the database with a summary of schedule information.	Can also add Status, so ST=EXP (expired schedules)
FSTRUC,SCHID=***, JOB=*****	Gives the order of triggered jobs under a given structure.	Please note that there can be more than one schedule ID for each job and for each day.
LRLOG	Details of previous runs since midnight	Add date=* which gives the last five days worth. Can also find out which jobs ran late or were cancelled by using ST=LATE/CANC
LJCL,JOB=Y****	Lists JCL deck to be used by job="x", regardless of whether it's in the queue (XQJ).	
LISTDIR,DSN=library, MEM=member	Lists members of PDS	
LQ/LQUE	Lists queue information	



# Other Useful CA7 Commands (Cont.)

Command	Purpose	Notes
<b>LIST</b> <b>/DISPLAY,ST=JCL</b>	Lists jobs which have fallen over Listing of all JCLID's and their associated library.	
<b>LJES</b> <b>HOLD,JOB=Y****</b>	Lists jobs that have been sent to JES Holds job in CA-7 queue (XQJ)	
<b>LQP,JOB=Y*****</b>	Lists job information from the Request and LRDY queues	Displays the current status of the job. This command shows you why a job may not be executing
<b>POST,JOB=Y*****</b>	Satisfies requirements for jobs.	Command followed by type of requirement to be met. IE. DSN=xx.xxxx.xxxxx or JOB=*****.
<b>REQUEUE,JOB=Y****</b>	Puts job back in XQJ when it's sitting in LRDY or LJES queues.	
<b>SUBTM,JOB=Y*****</b>	Allows you to make your job run at a particular time once already on the XQJ queue.	Followed by TIME=hhmm
<b>/PROF(S)</b>	Lists and updates CA-7 user profiles.	

*Queue :*

*LQ*

*LIST*

*LRDY*

*LREQ*

*LACT*

*LRDYP*

*Log/History : →*

*LPRRN*

*LRLOG*

*Prose Check : →*

*LPROS*

*LARF*

*LJCL*

*LSCHD*

*LJOB*

*LWLB*

*Triggered jobs : →*

*FRJOB*

*FSTRUC*

*CA11 : →*

*ARTS*

## List of CA7 Commands

## Panel

## General CA7 Commands: →

DEMAND

DEMANDH

CANCEL

HOLD

RELEASE

/fetch

ARFP

SUBMIT

RUN

RUNH

---

## Miscellaneous Commands: →

---

SSCAN

SCHDMOD

CALMOD

SUBTM

REQUEUE

ADDRQ

NXTCYC

JCLOVRD

ARFP

JCL

QJCL

DB

JOBCONN

XQM

XQN

XQJ

XUPD

XRQ

XWLB

## LRDY - SHOWS THE JOBS THAT ARE IN READY QUEUE

KRISHNA - EXTRA!® Personal Client

Thu, Nov 22 10:5 04:44

Bangalore

Thu, Nov 22 3:14 pm

LRDY

LIST=

DATE=07.326 PAGE 0001

JOB NAME	QUEUE NAME	CA-7 JOB#	-DAY(DDD) DEADLINE	AND TIME(HHMM)-- SUB/START	CPU SPEC/RUN	SCH ID	ENTRY MODE	MSTR REQ	JOB STATUS
AUSBCV1F	RDY	0239	326/0302	*NONE* 326/0324	SY7-	001	AUTO	000	W-RSRC
AUSBCV13	RDY	0243	326/0302	*NONE* 326/0510	SY7-	001	AUTO	000	W-RSRC
AUSBCV14	RDY	0244	326/0302	*NONE* 326/0512	SY7-	001	AUTO	000	W-RSRC
AUSBCV15	RDY	0245	326/0302	*NONE* 326/0507	SY7-	001	AUTO	000	W-RSRC
AUSBCV16	RDY	0246	326/0302	*NONE* 326/0512	SY7-	001	AUTO	000	W-RSRC
AUSBCV17	RDY	0247	326/0302	*NONE* 326/0516	SY7-	001	AUTO	000	W-RSRC
AUSBCV18	RDY	0248	326/0302	*NONE* 326/0505	SY7-	001	AUTO	000	W-RSRC
AUSBCV19	RDY	0249	326/0302	*NONE* 326/0335	SY7-	001	AUTO	000	W-RSRC

SLIF-00 REQUEST COMPLETED AT 04:43:14 ON 07.326

4B :00.3 01/02

Connected to host 192.168.166.3 (ISCA0032)

Start NAL Window f... Inbox - Micros... KRISHNA - E... 2 Microsoft ... Pittsburgh Tru... 3 Notepad I:\Production ... 3:14 PM Thursday

Krishna Prasa... Lakshmi Priya/... HemaLatha A... 2 Internet E... Document1 - ... ServiceCenter...

## LIST - SHOWS THE JOBS THAT ARE ABENDED

KRISHNA - EXTRA!® Personal Client

Thu, Nov 22 10.5 04:45

Bangalore

Thu, Nov 22 3:15 pm

LIST

CA - 7 - J O B R E S T A R T PAGE 0001

SJR3-10 RESTART JOB SCAN.

JOBNAME	CA7#	LASTSTEP	COMP	---DUE-OUT--	RC	PROSE#	COMMENTS
ISMQMMX2	0127	SAS	C0008	07.323/10:01	00	00000000	COND-CD RSTBL
QCST1000	0142	SORTQCST	S0C7	07.325/19:04	00	00000000	RSTBL
SJR0-00 REQUEST COMPLETED AT 04:45:16 ON 07.326							

4B :00.3 01/02

Connected to host 192.168.166.3 (ISCA0032)

Start

NAL Window F...

Inbox - Micros...

KRISHNA - E...

2 Microsoft ...

Pittsburgh Tru...

3 Notepad

I:\Production ...

Krishna Prasa...

Lakshmi Priya/...

HemaLatha A...

2 Internet E...

Document1 - ...

Document5 - ...

ServiceCenter...

3:15 PM Thursday





## SHOWS THE JOBS THAT ARE IN LATE STATUS WITH THE REQUIREMENTS

```

KRISHNA - EXTRA!@ Personal Client
Thu, Nov 22 10.5 04:46
Bangalore
Thu, Nov 22 3:16 pm

LQ,ST=LATE,LIST=STATUS
LIST=STATUS ST=LATE DATE=07.326 PAGE 0002

JOB QUEUE CA-7 -DAY(DDD) AND TIME(HHMM)-- CPU SCH ENTRY MSTR JOB
NAME NAME JOB# DEADLINE SUB/START DUE-OUT SPEC/RUN ID MODE REQ STATUS

RLOD3A REQ 0800 325/0921 325/0900 325/0930 SY7- 001 SSCN 002 LATE

----- REQUIREMENTS STATUS -----
JOB ON HOLD
EXTERNAL USR=ON HOLD PER SRINI REDDY
DATE/TIME=07325/0718

ISMZ10SA REQ 0866 321/1817 *NONE* 321/1826 SY7- 001 AUTO 001 LATE

----- REQUIREMENTS STATUS -----
JOB ON HOLD

ISM5406P REQ 0446 325/2243 326/0600 326/0630 SY7- 001 SSCN 001 LATE

----- REQUIREMENTS STATUS -----

. . . . .

4B :00.3 01/02
Connected to host 192.168.166.3 (ISCA0032) NUM 3:16 PM
Start NAL Window f... Inbox - Micros... KRISHNA - E... 2 Microsoft ... Pittsburgh Tru... 3 Notepad I:\Production ... 3:16 PM
Krishna Prasa... Lakshmi Priya/... HemaLatha A... 2 Internet E... Document1 - ... Document5 - ... ServiceCenter... Thursday

```



```

KRISHNA - EXTRA!@ Personal Client
Thu, Nov 22 10:5 04:46
Bangalore
Thu, Nov 22 3:16 pm

LQ,ST=LATE,LIST=STATUS
LIST=STATUS ST=LATE DATE=07.326 PAGE 0003

JOB QUEUE CA-7 -DAY(DDD) AND TIME(HHMM)-- CPU SCH ENTRY MSTR JOB
NAME NAME JOB# DEADLINE SUB/START DUE-OUT SPEC/RUN ID MODE REQ STATUS

_____ WAITING FOR SUBMIT TIME (07326 06:00)

AUSBDUM2 REQ 0250 326/0302 *NONE* 326/0311 SY7- 001 AUTO 011 LATE

----- REQUIREMENTS STATUS -----
INTERNAL JOB=AUSBCV10 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV11 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV12 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV13 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV14 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV15 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV16 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV17 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV18 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV19 DATE/TIME=07325/1852
INTERNAL JOB=AUSBCV1F DATE/TIME=07325/1852

. . . . .

4B :00.3 01/02
Connected to host 192.168.166.3 (ISCA0032)
NUM 3:16 PM
3:16 PM Thursday

```



KRISHNA - EXTRA@ Personal Client

Thu, Nov 22 10:50 04:47

Bangalore

LIST=

DATE=07.326 PAGE 0001

JOB NAME	QUEUE NAME	CA-7 JOB#	-DAY(DDD) DEADLINE	AND TIME(HHMM)-- SUB/START DUE-OUT	CPU SPEC/RUN	SCH ID	ENTRY MODE	MSTR REQ	JOB STATUS
DBQDISM1	ACT	0524	326/0447	326/0446	326/0457	SY7-ASYS	001 AUTO	000	
ISMDPOS4	ACT	0186	326/0334	326/0234	326/0334	SY7-ASYS	001 DEMD	000	LATE
SRDWBU02	ACT	0938	326/0043	*NONE*	326/2240	SY7-ASYS	001 AUTO	000	
ISMDPOST	ACT	0181	326/0331	326/0231	326/0331	SY7-ASYS	001 DEMD	000	LATE
ISMDEDIT	ACT	0919	326/0023	326/0022	326/2308	SY7-ASYS	001 AUTO	000	
DB2AMSTR	ACT	0754	326/0013	*NONE*	326/0013	ALL-ASYS	001 EXTL	000	
ISMDPOS2	ACT	0182	326/0333	326/0233	326/0333	SY7-ASYS	001 DEMD	000	LATE
ISMDESP	ACT	0252	326/0255	326/0254	326/1016	SY7-ASYS	002 AUTO	000	
ISMA800J	ACT	0856	326/0020	326/0020	326/2105	SY7-ASYS	001 AUTO	000	
ISMDPOS3	ACT	0191	326/0335	326/0236	326/0335	SY7-ASYS	001 DEMD	000	LATE
ISMA390J	ACT	0854	326/0029	326/0020	326/1850	SY7-ASYS	001 AUTO	000	
ISMDPRSA	ACT	0616	325/0158	326/0015	326/0030	SY7-ASYS	001 SSCN	000	LATE
DRPRDMP3	ACT	0379	326/0337	326/0336	326/0338	SY7-ASYS	001 AUTO	000	LATE
AUSBCV13	ACT	0243	326/0302	*NONE*	326/0510	SY7-ASYS	001 AUTO	000	
DBADISMA	ACT	0823	326/0215	326/0446	326/0230	SY7-ASYS	001 SSCN	000	LATE
SRDWBU01	ACT	0937	326/0043	*NONE*	326/2337	SY7-ASYS	001 AUTO	000	

4B

:00.3

01/02

Connected to host 192.168.166.3 (ISCA0032)

NUM

3:17 PM

Thursday



SHOWS THE JOBS THAT ARE IN ACTIVE QUEUE & THE TIME THAT THE JOB TAKES

KRISHNA - EXTRA! Personal Client

Thu, Nov 22 10:5 04:48

Bangalore

Thu, Nov 22 3:18 pm

LACTR

DATE=07.326 PAGE 0001

JOB NAME	SYSTEM -NAME-	MAIN -ID-	JOB C/PRT	CPU -ID	CA-7# NUMBR	CPU/ELAPS --TIME---	TOTAL TP1	TAPES TP2	CPU% UTIL	SUBMIT DATE/TIME
DBQDISM1	DB2	SY7	A/100	ASYS	0524	00006/0005	00	00	02.00	07326/0446
ISMDPOS4	IEISM	SY7	A/100	ASYS	0186	05222/2023	00	00	04.28	07326/0234
SRDWBU02	IETRAIN2	SY7	A/100	ASYS	0938	02935/2152	00	00	02.25	*NONE*
ISMDPOST	IEISM	SY7	A/100	ASYS	0181	05625/2025	00	00	04.61	07326/0231
ISMDEDIT	IEISM	SY7	A/100	ASYS	0919	16943/2240	00	00	12.48	07326/0022
DB2AMSTR		ALL	9/000	ASYS	0754	00000/0000	00	00	01.00	*NONE*
ISMDPOS2	IEISM	SY7	A/100	ASYS	0182	05548/2019	00	00	04.58	07326/0233
ISMDESP	IEISM	SY7	A/100	ASYS	0252	00109/0716	00	00	00.26	07326/0254
ISMA800J	IEAAR	SY7	A/100	ASYS	0856	00004/2040	00	00	00.01	07326/0020
ISMDPOS3	IEISM	SY7	A/100	ASYS	0191	04825/2010	00	00	04.00	07326/0236
ISMA390J	IEAAR	SY7	A/100	ASYS	0854	00252/1816	00	00	00.26	07326/0020
ISMDPRSA	IEISM	SY7	A/100	ASYS	0616	00105/2227	00	00	00.08	07326/0015
DRPRDMP3	IPOPSYS	SY7	A/100	ASYS	0379	00045/0001	04	00	75.00	07326/0336

4B :00.3 01/02

Connected to host 192.168.166.3 (ISCA0032)

Start NAL Window F... Inbox - Micros... KRISHNA - E... 2 Microsoft ... Pittsburgh Tru... 3 Notepad I:\Production ... 3:18 PM Thursday

Krishna Prasa... Lakshmi Priya... HemaLatha A... 2 Internet E... Document1 - ... Document5 - ... ServiceCenter...

## SHOWS THAT THE JOBS THAT ARE WAITING FOR RESOURCES

KRISHNA - EXTRA@ Personal Client

File Edit View Tools Window Help

Thu, Nov 22 10.5 04:49

Bangalore

Thu, Nov 22 3:19 pm

LQ,ST=WRSC

LIST= ST=WRSC

DATE=07.326

PAGE 0001

JOB NAME	QUEUE NAME	CA-7 JOB#	-DAY(DDD) DEADLINE	AND TIME(HHMM)-- SUB/START DUE-OUT	CPU SPEC/RUN	SCH ID	ENTRY MODE	MSTR REQ	JOB STATUS	
AUSBCV14	RDY	0244	326/0302	*NONE*	326/0512	SY7-	001	AUTO	000	W-RSRC
AUSBCV15	RDY	0245	326/0302	*NONE*	326/0507	SY7-	001	AUTO	000	W-RSRC
AUSBCV16	RDY	0246	326/0302	*NONE*	326/0512	SY7-	001	AUTO	000	W-RSRC
AUSBCV17	RDY	0247	326/0302	*NONE*	326/0516	SY7-	001	AUTO	000	W-RSRC
AUSBCV18	RDY	0248	326/0302	*NONE*	326/0505	SY7-	001	AUTO	000	W-RSRC
AUSBCV19	RDY	0249	326/0302	*NONE*	326/0335	SY7-	001	AUTO	000	W-RSRC

SLIF-00 REQUEST COMPLETED AT 04:49:12 ON 07.326

4B

:00.3

01/02

Connected to host 192.168.166.3 (ISCA0032)

Start

NAL Window f...

Inbox - Micros...

KRISHNA - E...

2 Microsoft ...

Pittsburgh Tru...

3 Notepad

I:\Production ...

Krishna Prasa...

Lakshmi Priya/...

HemaLatha A...

2 Internet E...

Document1 - ...

Document5 - ...

ServiceCenter...

3:19 PM

Thursday



## SHOWS THAT THE JOBS THAT ARE IN LATE STATUS W/O THE REQUIREMENTS

KRISHNA - EXTRA!@ Personal Client

FileEditFormatViewToolsWindowHelp

10.5

04:50

Bangalore

Thu, Nov 223:20 pm

LQ,ST=LATE

LIST= ST=LATE

DATE=07.326

PAGE 0001

JOB NAME	QUEUE NAME	CA-7 JOB#	-DAY(DDD) DEADLINE	AND TIME(HHMM)-- SUB/START	CPU SPEC/RUN	SCH ID	ENTRY MODE	MSTR REQ	JOB STATUS	
ISMWBU01	REQ	0443	326/0347	326/0600	326/0630	*NOEX*	002	SSCN	001	LATE
ACSRACFE	REQ	0074	326/0146	*NONE*	326/0156	/SY7-	001	AUTO	001	LATE
RLODTD3A	REQ	0800	325/0921	325/0900	325/0930	SY7-	001	SSCN	002	LATE
ISMZ10SA	REQ	0866	321/1817	*NONE*	321/1826	SY7-	001	AUTO	001	LATE
ISM5406P	REQ	0446	325/2243	326/0600	326/0630	SY7-	001	SSCN	001	LATE
AUSBDUM2	REQ	0250	326/0302	*NONE*	326/0311	SY7-	001	AUTO	008	LATE
ISMQMMX4	REQ	0012	323/1729	*NONE*	324/0237	SY7-	002	AUTO	001	LATE
DPRE850J	REQ	0507	326/0440	326/0500	326/0449	SY7-	011	AUTO	001	LATE
ISMZ525J	REQ	0516	325/1737	326/0015	326/0030	SY7-	001	SSCN	001	LATE
ISMQMMX2	REQ	0127	323/1001	323/1001	323/1320	SY7-ASYS	002	AUTO	001	R-C0008
QCST1000	REQ	0142	325/1904	325/1903	325/1940	SY7-ASYS	001	AUTO	001	A-S0C7
ISM8350J	REQ	0880	326/0020	*NONE*	326/0029	SY7-	001	AUTO	001	LATE
DBADISM7	RDY	0229	326/0252	326/0450	326/0353	SY7-	001	AUTO	000	LATE
AUSBCV15	RDY	0245	326/0302	*NONE*	326/0507	SY7-	001	AUTO	000	W-RSRC
AUSBCV16	RDY	0246	326/0302	*NONE*	326/0512	SY7-	001	AUTO	000	W-RSRC
AUSBCV17	RDY	0247	326/0302	*NONE*	326/0516	SY7-	001	AUTO	000	W-RSRC

4B

:00.3

01/02

Connected to host 192.168.166.3 (ISCA0032)

Start

NAL Window f...

Inbox - Micros...

KRISHNA - E...

2 Microsoft ...

Pittsburgh Tru...

3 Notepad

I:\Production ...

Krishna Prasa...

Lakshmi Priya/...

HemaLatha A...

2 Internet E...

Document1 - ...

Document5 - ...

ServiceCenter...

3:20 PM

Thursday

The screenshot shows a Windows XP desktop environment. At the top, there is a blue title bar for a window titled "KRISHNA - EXTRA!® Personal Client". Below this is a standard Windows XP taskbar with several icons. The main area of the screen is a black terminal window with green text. The text in the terminal reads:

```
LQ,ST=SKEL
SLIF-19 NO QUEUE RECORDS MATCH PARAMETERS ENTERED
```

At the bottom of the terminal window, there is a green status bar with the text "4B" on the left, a timer ":00.3" in the center, and the date "01/02" on the right. Below the terminal window, the Windows taskbar is visible, showing the Start button and several open applications: "NAL Window F...", "Inbox - Micro...", "KRISHNA - E...", "2 Microsoft ...", "Pittsburgh Tru...", "3 Notepad", "I:\Production ...", "Krishna Prasa...", "Lakshmi Priya/...", "HemaLatha A...", "2 Internet E...", "Document1 - ...", "Document5 - ...", and "ServiceCenter...". The system tray on the right shows the time "3:21 PM" and the date "Thursday".



# XQM

## PANEL SHOWS THE JOBS WAITING FOR THE REQUIEMENTS

KRISHNA - EXTRA@ Personal Client

File Edit View Tools Window Help

Icons

10.5

Thu, Nov 22 05:01

Bangalore

Thu, Nov 22 3:31 pm

xqm

----- CA-7 QUEUE MAINTENANCE - CPU JOBS STATUS (RQMTS) -----

F-JOBNAME---J--I--E--U--N-SHJV

CICSPNML . . . . S

CICSTND2 . . . . S

CICSTND3 . . . . S

ISMSLGSO . . . . S

ISMSNYBE . . . . S

ISMSNYBF . . . . S

ISMSNYBG . . . . S

ISMSPDGS . . . . S

ISMSTMCO . . . . S

ISMVMO2 1 . . . . S

NDCDAMH\$ . . . . S

NDCDB94\$ . . . . S

NDCDLG1\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEN\$ . . . . S

F-JOBNAME---J--I--E--U--N-SHJV

NDCPBC1\$ . . . . S

NDCPBC2\$ . . . . S

JOB: \*

SEQ: JOBNAME

QUEUE: REQ

LIST: ANY

FUNCTIONS:

C=CANCEL

F=RESTART

H=HOLD

J=JCLOVRD

P=RSVP

Q=REQUEUE

R=RELEASE

S=SUBTM OFF

U=UPDATE

V=VERIFY

X=RQMT POST

E=EDIT QJCL

PROGRAM: QM20 MSG-INDX: 00 -- QM.1-M -- 07.326 / 05:01:38

MESSAGE: ENTER FUNCTION IN 'F' FIELD OR ENTER A COMMAND ON THE TOP LINE

4B

:00.3

02/05

Connected to host 192.168.166.3 (ISCA0032)

Start

NAL Window f...

Inbox - Micros...

KRISHNA - E...

2 Microsoft ...

Pittsburgh Tru...

3 Notepad

I:\Production ...

Krishna Prasa...

HemaLatha A...

2 Internet E...

Document1 - ...

ca7 command...

ServiceCenter...

3:31 PM

Thursday

## PANEL SHOWS THE JOBS WAITING FOR THE REQUIEMENTS

KRISHNA - EXTRA@ Personal Client

File Edit View Tools Window Help

Icons

10.5

Thu, Nov 22 05:01

Bangalore

Thu, Nov 22 3:31 pm

xqm

----- CA-7 QUEUE MAINTENANCE - CPU JOBS STATUS (RQMTS) -----

F-JOBNAME---J--I--E--U--N-SHJV

CICSPNML . . . . S

CICSTND2 . . . . S

CICSTND3 . . . . S

ISMSLGSO . . . . S

ISMSNYBE . . . . S

ISMSNYBF . . . . S

ISMSNYBG . . . . S

ISMSPDGS . . . . S

ISMSTMCO . . . . S

ISMVMO2 1 . . . . S

NDCDAMH\$ . . . . S

NDCDB94\$ . . . . S

NDCDLG1\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEM\$ . . . . S

NDCDOEN\$ . . . . S

F-JOBNAME---J--I--E--U--N-SHJV

NDCPBC1\$ . . . . S

NDCPBC2\$ . . . . S

JOB: \*

SEQ: JOBNAME

QUEUE: REQ

LIST: ANY

FUNCTIONS:

C=CANCEL

F=RESTART

H=HOLD

J=JCLOVRD

P=RSVP

Q=REQUEUE

R=RELEASE

S=SUBTM OFF

U=UPDATE

V=VERIFY

X=RQMT POST

E=EDIT QJCL

PROGRAM: QM20 MSG-INDX: 00 -- QM.1-M -- 07.326 / 05:01:38

MESSAGE: ENTER FUNCTION IN 'F' FIELD OR ENTER A COMMAND ON THE TOP LINE

4B

:00.3

02/05

Connected to host 192.168.166.3 (ISCA0032)

Start

NAL Window f...

Inbox - Micros...

KRISHNA - E...

2 Microsoft ...

Pittsburgh Tru...

3 Notepad

I:\Production ...

Krishna Prasa...

HemaLatha A...

2 Internet E...

Document1 - ...

ca7 command...

ServiceCenter...

3:31 PM

Thursday

# ARF

(Automated Recovery Facility)



ARF is mainly used for CA-7 to monitor exception conditions for production jobs and to schedule recovery actions to execute when the job abends.

- Utility which comes with CA-7
- We can write RULES for abended jobs using this Utility.
- One ARFRULE can be attached to multiple jobs.

## *To know if the job uses ARFSET*

```

----- CA-7 CPU JOB DEFINITION -----
FUNCTION: LIST      (ADD,DELETE,DD,PURGE,DELPRTN,FORMAT,LIST,UPD)
JOB: MARSNDN0A
GENERAL:  SYSTEM: ARS/NETW  JOBNET:          OWNER:          UID: 0

JCL:      ID: 160  MEMBER: MARSNDN0A  RELOAD: N  EXEC: Y  RETAIN-JCL: N
          LIB:
REQUIREMENTS: HOLD: N  JCL-OVRD: N  USE-OVRD-LIB: N  VERIFY: N  MAINT: N
          SATISFACTION LEAD-TIME:  JOB: 0  DSN: 0  ARFSET: RSTR0069

EXECUTION: MAINID: ALL  INSERT-RMS: Y  COND-CODE: 0  RO: 0
          DONT SCHEDULE -- BEFORE: 99251 0000  AFTER: 99999 0800

MESSAGES:  LTERM: MASTER  REQUIREMENT-LIST: Y  PROMPTS: N
          ERROR MSGS -- RQMTS NOT USED: Y  DSN NOT FOUND: Y

RESOURCES: REGION: 4096  CLOCK-TIME: 0006  CPU-TIME: 00004
          CLASS:  PRTY: 000  MSGCLASS: 9
          TAPE DRIVES...TYPE1: 000 M 000 C  TYPE2: 000 M 000 C

PROGRAM: SM20  MSG-INDX: 00  -- DB.1  --  03.114 / 12:18:17
MESSAGE: LIST SUCCESSFUL
  
```

Note: Once the ARF rule is attached to the job, ARF works along with the job when the job is submitted to the spool and consumes the CPU resources.

To view the ARFSET rule defined to job:  
Go to 'AR' panel, and give the function as shown below

```

----- CA-7 ARF CONDITION DEFINITION MAINTENANCE -----
FUNCTION: FE      (CLEAR,DELETE,EDIT,FE,FETCH,REPL,SAVE)

SET NAME: RSTR0069

UID      : 0

RESPONSE ID:

DEF-COUNT: 000

PROGRAM: AR31  MSG-INDX: 05  -- AR.3  --  03.114 / 13:07:53  MSGS 0008
MESSAGE: INVALID OR OMITTED FUNCTION DATA
    
```

```

3270 Terminal - blue.ccs.ge.com (Session A)
File Edit Disconnect Script View Settings Go IntraNet!™ Help

----- ARF CONDITION EDIT FOR NEARCASC -----
FUNCTION: LIST      (ADD,DELETE,EXIT,FORMAT,LIST,REPL,SAVE,SR,SS) DEFCT: 01
TYPE: JC      SYS EQ *      SID EQ 0      RSTC GE 0      EM EQ *      DEFID: 1
      FROM: 01011975 0001      TO: 12312074 2359

JC, SC TST: STEP EQ JS04      PROC EQ *      PGM EQ *
CC/ABENDS : CC EQ 0008 /_ CC EQ 0012  _  ??? GE 000  _
      ??? GE 000  _  ??? GE 000  _  ??? GE 000
EC, EE, IS, LB, LE, LS TST:
      RO:      DATE:      TIME:      AO:      INT/ADJ:

RESPONSES:
1: AW,T=0010 ←
2:
3:
4:
5:
6:
7:

FINAL -- DISP : F CA-11?: N BYPGDG: N USAGE: PROCESS: CC:
      START :      END :
PROGRAM: AR32 MSG-INDX: 00 -- AR.3.1 -- 04.021 / 14:31:36
MESSAGE: LIST FUNCTION SUCCESSFUL
  
```

After Waiting 10 Minutes

**LARF Command:** THE LARF Command displays information about the ARFSETS from the database

**Syntax:** LARF,ARFSET=arfset name, LIST=option

File Edit Disconnect Script View Settings  Help



```
LARF
ARFSET=*          LIST=NODEFS          DATE=03.115    PAGE 0001
                                     MSGS 0015

ARF SET  ARF  LAST CHANGE  NBR  EC  EE  JC  LA  LB  LE  LS  SC  IS
NAME    UID   DATE      TIME  DEF  #   #   #   #   #   #   #   #   #
RSTR0069 000 03/21/2003 11:28   1   .   .   1   .   .   .   .   .   .
RSTR0169 000 03/21/2003 11:29   1   .   .   1   .   .   .   .   .   .
RSTR3333 000 03/21/2003 11:31   1   .   .   1   .   .   .   .   .   .

SLIW-00 REQUEST COMPLETED AT 11:51:59 ON 03.115
```

## To purge an ARF

Use ARFP command to purge an ARF pending on a job.

ARFP,JOB=<job number>,FORCE=YES

- JOB NUMBER → Unique CA-7 number of the job for which pending ARF activity is to be purged.
- FORCE → Forces the purging of the ARF requirement for a job even if it does not exist in the request, ready, or active queue.



**Thank you...**