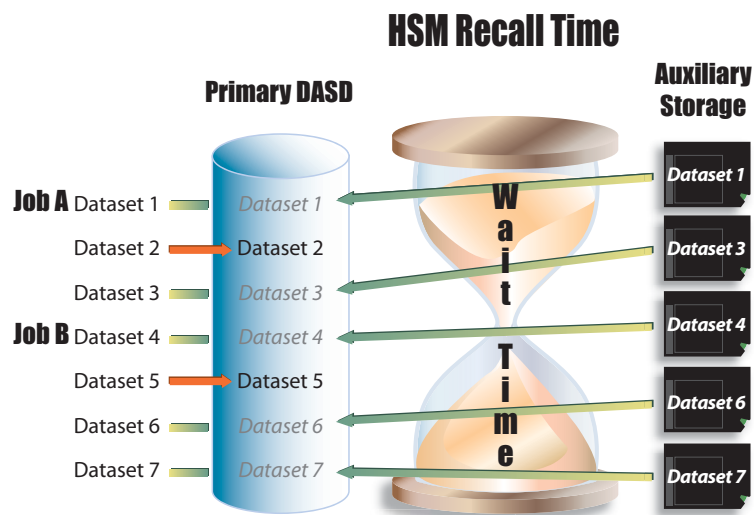


# HSM Advanced Recall (HSM/AR)

- ✓ Recall datasets HSM has migrated before your production job requires them!
- ✓ Optimize recalls of your HSM migrated data to eliminate HSM recall wait times!
- ✓ Improve Batch Production Throughput!

## HSM Recalls = WAIT

For over 30 years, DFSMSHsm has been an effective DASD storage management and productivity tool that many data centers have used to automate the migration of inactive data from primary DASD to alternate storage media. However, when that migrated data is needed, HSM has to recall the data back to primary DASD, causing delays in processing as the job waits for the recall to complete. The length of this delay is dependent on which auxiliary storage the dataset has migrated to, on the availability of system resources, and also on the number of recalls issued by other tasks.



Many lengthy waits caused by HSM recalls slow down batch processing and delay the start-up of on-line processes. This is true in "daily batch processing", and has a significant effect on periodic (weekly, monthly, yearly, etc.) batch processing as well.

**Use DFSMSHsm to manage your DASD storage and migrate your inactive data, then use HSM/AR to manage the recall of migrated datasets back to primary DASD.**

## Advanced Recall is THE Solution

HSM Advanced Recall (HSM/AR) can eliminate the lengthy recall wait time by pre-staging the migrated HSM data on primary DASD so that it is readily available when needed by your production jobs.

Reducing the HSM recall wait times in your production job cycles will allow you to:

- ✓ Ensure applications are processed in a shorter batch window
- ✓ Start on-line applications sooner
- ✓ Process more applications within your batch window

This time savings can especially be noted when processing weekly, monthly and yearly cycles, since this data is more likely to have been migrated by HSM due to age and lack of activity. HSM/AR can recall the HSM data required by periodic jobs so that the jobs do not suffer from extended wait periods.

**HSM/AR will recall datasets needed by your production jobs just before they are needed!**



FTAPE TAPE FULL LIST FOR CA-7 JOBS DATE 12-12-04 PAGE 0001

PERIOD : 12-12-04 AT 0000 HRS TO 12-12-04 AT 2400 HRS

VOLSER	DATASET NAME	START DTTM	END DTTM	SCHED#	SID	TRIGGERING JOB/DSN
MIGRAT	F195.TRI.F9860.AUTH.PGF(0)				00000/0000	78048083 000
	J195R922 AR/AUTH	02322/0945	02322/0949	SJ000756	001	
	J210E320 EBFIX	02322/2348	02322/2348	SJ000590	002	
	J210E330 EBFIX	02322/2348	02322/2348	SJ000590	002	
	J210S330 SE/FIX	02322/2322	02322/2322	SJ000213	001	
	J3706685 COPS/INV	02322/0600	02322/0600	SJ000827	001	
MIGRAT	F305B.P0030990.TDATACSS(0)				94203/0430	78048083 001
	J4113029 CSS	02322/0330	02322/0334	SJ000415	002	
MIGRAT	F236.FE030.APMMASTER.AP0002E(0)				99364/2249	78048083 001
	J835ER01 EB-PO	02323/0207	02323/0207	SJ000495	001	
	J835ER04 EB-PO	02323/0207	02323/0207	SJ000495	001	
	J835ER05 EB-PO	02323/0207	02323/0207	SJ000495	001	
	J835ER08 EB-PO	02323/0207	02323/0207	SJ000495	001	
603951	DB2L.TAPE.DCDB01.DCTSACTI.DBP100(-8)				00000/0000	78048080 001
	J289VT08 CA1-VTS	02322/0747	02322/0751	SJ000256	001	
612358	DB2L.P411.CS29.DSNP00(-2)				00000/0000	78048081 001
	J289VT05 CA1-VTS	02322/0747	02322/0925	SJ000256	001	
MIGRAT	F387.F200P.M1982.DHOLD(0)				02321/1912	78048083 001
	J390200P AR.AUTH	02323/2034	02323/2231	SJ000513	001	
614559	TAPE.ET.PRODUCTN.BACKUP(-49)				00000/0000	78048081 001
	J289VT04 CA1-VTS	02322/0747	02322/1143	SJ000256	001	
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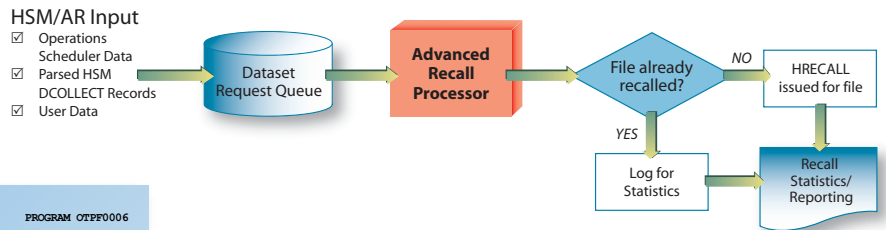
SCRATCH ... APPROXIMATELY 01890 TAPES REQUIRED FOR OUTPUT DATASETS.

Migrated HSM Data

# How HSM/AR Works

HSM/AR uses information from your job scheduling software or other input to identify HSM migrated datasets and obtains the date and time that these datasets will be required by production jobs. Shortly before the job requires the HSM migrated file, HSM/AR issues the "HRECALL" command so the datasets are recalled and readily available when the production job allocates them. No HSM recall delays to hinder production.

## HSM Advanced Recall Process



REL 1.2.1 PTF 0 ADVANCED RECALL PROGRAM OTPF006

DATE: 12/14/2004 TIME: 08:56:10 RECALL ACTIVITY SUMMARY REPORT FOR OPENTECH\_SYSTEMS,\_INC. PAGE 1

RECALL TIME SAVED:

TOTAL TIME:	06:34:03	(HH:MM:SS)
AVERAGE TIME:	02:29	(MM:SS)c
MAX. TIME:	04:31	(MM:SS)
MIN. TIME:	00:16	(MM:SS)

TOTAL RECS PROCESSED: 3249

PENDING RECALL RECORDS:	64
BEING RECALLED RECORDS:	12
RECALL DONE RECORDS:	896
ALREADY IN RECORDS:	120
RECALL FAILED RECORDS:	15
NOT IN CATALOG RECORDS:	4
VOLUME IN USE RECORDS:	2
PENDING SCHED RECORDS:	0
PENDING EXPANS RECORDS:	25
VTL NOT AUTH RECORDS:	1
VOL NOT IN TMC RECORDS:	0
DUPLICATE VOL RECORDS:	115
TMC REC ERROR RECORDS:	0
ICONTLTB ERROR RECORDS:	0
REQ TOO OLD RECORDS:	13
NOT TAPE FILE RECORDS:	9
REQ CANCELED RECORDS:	17
NOT IN ANY ATL RECORDS:	320
DELETED/RESCHD RECORDS:	0
DELETED/GDGBAS RECORDS:	0
NO VSER/NO TMS RECORDS:	0
HSM RECALL DONE RECORDS:	1633
HSM RECALL FAIL RECORDS:	3
HSM RECALL SKIP RECORDS:	0

HSM/AR is an intelligent tool that can determine if the requested dataset has already been recalled, and will bypass those datasets.

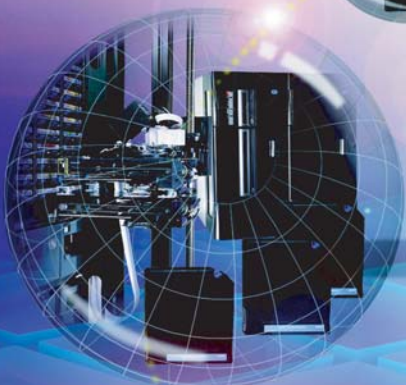
**HSM/AR can dramatically reduce the time required to run your batch cycles by reducing or eliminating your HSM wait time. Your batch cycles complete faster; saving time and money.**

**See for yourself how HSM/AR can significantly improve your batch run times. Contact OpenTech Systems today to request a FREE evaluation or to schedule a product presentation.**

### Also available:

Virtual Tape Advanced Recall (VTAR)

Eliminate processing delays caused by recalling virtual tape data back to cache.



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