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JADE COMPUTER NOTE 53
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THIS IS JADEPR.TEXT (MSSNOTE)
HOW TO USE THE JADE VOLUMES ON MSS
(MSS = MASS STORAGE SYSTEM)
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**
UPDATED:          (UPDATED LINES ARE MARKED WITH ***)
STATUS 25/01/82
(P. STEFFEN)
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1) THE MSS IS ORGANIZED IN VOLUMES
---> EACH VOLUME HAS 403 CYLINDERS OF 3330 DISK
---> EACH CYLINDER HAS 19 TRACKS OF 3330 DISK
---> EACH TRACK HAS 13030 BYTES OF 3330 DISK
EACH MSS VOLUME HAS 403 CYLINDERS = 7657 TRACKS (403*19)
= ABOUT 100 MBYTES (403*19*13030 BYTES).
THAT MEANS: EACH VOLUME HAS ABOUT THE CAPACITY OF A TAPE (DEN=4).

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AT PRESENT (25 JANUARY 82) JADE HAS 16 VOLUMES = 120 000 TRACKS
FOR PUBLIC USE.

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2) MULTIVOLUME FILES ARE NOT POSSIBLE ON MSS.

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3) TO USE (READ OR WRITE) A FILE WHICH IS ALREADY STORED ON MSS
IS LIKE USING A FILE ON DISK.
IN A BATCH JOB YOU SHOULD NOT USE THE 'UNIT' PARAMETER.
EXAMPLE:
//GO.FT01F001 DD DISP=SHR,DSN=...

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4) TSO-ALLOCATION OF A NEW DATASET ON MSS IS POSSIBLE.
YOU HAVE TO SPECIFY: MSGVP=VJAD OR VJAZ

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5) ** BEFORE ALLOCATING A DATA SET ON VJAD INFORM THE MSS COORDINATOR
(P. STEFFEN) BY A W R I T E N NOTE ABOUT PURPOSE, SIZE, USERS,
AND APPROX. EXPIRING DATE OF YOUR DATA SET (SEE EXAMPLE BELOW).
THE USE OF VJAZ IS FREE TO ALL JADE MEMBERS. IN CASE OF MISUSE
*** OF THESE FREE VOLUMES, THIS RULE MUST BE RECONSIDERED.

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6) TO ALLOCATE A NEW DATASET IN A BATCH JOB YOU HAVE TO SPECIFY
THE PARAMETERS 'UNIT=3330V' AND 'MSGVP=VJAD' OR 'MSGVP=VJAZ'.
MSGVP = MASS STORAGE VOLUME GROUP, IN IBM-ENGLISH.
FOR THE JADE VOLUMES, MSGVP=VJAD
EXAMPLE 1:
//GO.FT02F001 DD DSN=FL1PST.TEST1,DISP=(NEW,CATLG),
// DCB=R01DCB.VBS,
// UNIT=3330V,MSGVP=VJAZ
!!!!!!!!!!!!!! THE LAST LINE IS NEW !!!!!!!!!!!!!

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EXAMPLE 2: (NOTASK JOB JUST FOR ALLOCATION OF DATASET)

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// JOB CLASS=E MSGLEVEL=(1,1),TIME=(,01)
//** TO ALLOCATE SEQUENTIAL DATASET ON MSS
//**MAIN ORG=EXT,LINES=2,RELPR=MED
// EXEC PGM=NOTASK,REGION=10K
//A DD DSN=FL1PST.TEST1,DISP=(NEW,CATLG),
// DCB=R01DCB.VBS,UNIT=3330V,MSGVP=VJAZ

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YOU MUST NOT USE THE 'SPACE' PARAMETER.
THE DEFAULT 'SPACE' PARAMETER WHICH IS USED AUTOMATICALLY
IS CHOSEN IN A WAY TO MAKE OPTIMAL USE OF THE VOLUME.
THIS DEFAULT 'SPACE' PARAMETER ALLOCATES
8 CYLINDERS AS PRIMARY AND AS SECONDARY ALLOCATION.
SINCE 15 SECONDARY ALLOCATIONS (EXTENTIONS) ARE POSSIBLE,
YOU GET UP TO 128 CYLINDERS = 2432 TRACKS = ABOUT 32 MBYTES.
YOU CAN STORE ABOUT 2400 MULTI-HADRON EVENTS ON THIS SPACE.

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STILL BIGGER DATASETS SHOULD REMAIN ON TAPE. EXCEPTIONS SHOULD
BE DISCUSSED WITH THE MSS COORDINATOR.

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7) TSO COMMANDS LIKE: DEL
LD
LDS
ARE WORKING ALSO FOR MSS DATASETS.
NOTE THAT LD AND LDS INVOLVE MOUNTING (!!) OF THE MSS-VOLUME.
THIS IS TIME CONSUMING. THEREFORE: PLEASE DO LD AND LDS AS
LITTLE AS POSSIBLE.

8) IT IS NOT RECOMMENDED TO COPY NEWLIB LIBRARIES (SOURCE OR LOAD)
TO MSS. SINCE THE ACCESS WILL BE MUCH SLOWER.
LIBRARIES, DIRECT ACCESS DATASETS, AND SMALL SEQUENTIAL DATASETS
(UP TO 240 TRACKS OF 19090 BYTES EACH = ABOUT 4.6 MBYTES)
SHOULD BE ALLOCATED ON 'FAST' DISKS.
THE 'FAST' DISKS ARE CONTROLLED BY THE HSM SYSTEM.
DATASETS ON 'FAST' DISKS WILL NOT BE MIGRATED TO TAPE ANYMORE.
HSM WILL MAKE SURE THAT DATASETS ON 'FAST' DISKS ARE READILY
ACCESSIBLE.
YOU GET MORE INFORMATION ON HSM IF YOU TYPE: H HSM

9) IN SUMMARY:
---> INFORM MSS-COORDINATOR BY WRITTEN NOTE ABOUT YOUR DATA SET
*** B E F O R E INSTALLATION ON VJAD.
*** THE USE OF VJAZ IS FREE TO ALL JADE MEMBERS.
---> DON'T USE THE SPACE PARAMETER IN BATCH ALLOCATION.
---> PUT LIBRARIES AND SHORTER DATASETS (< 240 TRACKS) ON 'FAST' DISKS,
BUT NOT ON MSS.
---> LARGER DATASETS (> 2432 TRACKS) SHOULD REMAIN ON TAPE,
BUT NOT ON MSS.

10) MSS DATASETS NOT FITTING IN THE SCHEME DESCRIBED CAN BE REMOVED
WITHOUT NOTICE BY THE MSS-COORDINATOR.

11) YOU GET MORE INFORMATION ON THE MASS STORAGE WITH NEWLIB
COMMAND: HELP MSS

12) IF YOU HAVE PROBLEMS WITH MSS, PLEASE CONTACT YOUR MSS-COORDINATOR
PETER STEFFEN, (USER I.D.= FL1PST/FILLHO), PHONE= 3137

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THERE ARE 16 TEMPORARY VOLUMES (CALLED "VTMP") AVAILABLE FOR PUBLIC
USE BY EVERYBODY AT DESY.
WE SHOULD MAKE USE OF THEM AS MUCH AS POSSIBLE.
*** DATASETS ON VTMP HAVE A LIFETIME OF 7 DAYS.
THAT MEANS: ON A MONDAY (RIGHT AFTER DELETION OF OLD
FILES BY R1) YOU HAVE A GOOD CHANCE TO GET SOME SPACE.
HERE IS THE JCL TO ALLOCATE SPACE ON VTMP'S IN A BATCH JOB:

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//FL1PST JOB CLASS=E,MSGLEVEL=(1,1),TIME=(,01)
//** TO ALLOCATE SEQUENTIAL DATASET ON MSS - VTMP
//**MAIN ORG=EXT,LINES=2,RELPR=MED
// EXEC PGM=NOTASK,REGION=10K
//A DD DSN=FL1PST.TEST2,DISP=(NEW,CATLG),
// DCB=R01DCB.VBS,UNIT=3330V,MSGVP=VTMP

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EXAMPLE FOR NOTE:
F22MCC.MSS.MUONS80

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SIZE:          800 TRACKS
CONTACT : F22MCC
CONTENTS: 200 MUHADS WITH INCL.MUONS(80)
USERS:      F22BOW,F22EAM,F22BAL,F22ALL,
            F22BAR,F22HAI
EXP.DATE: UNKNOWN
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