

# SAVETSS

## I General

SAVETSS is a Fortran program for retrieving files from a TSS DISK DUMP TAPE. IT is capable of extracting files from a partial dump (e.g. one that was not successfully completed). The retrieved files may then be ~~read~~ read back into TSS by using GETTPE.

## II Basic Use

### A. Input Files ... ~~the dump tapes~~

#### 1. The dump tapes

SAVETSS expects Volume 1 of the dump on ~~an~~ tape at 800BPI. The filename is TAPE3. Successive Volumes are handled by incrementing the tape number.. ie, Volume 2 → Tape 4. The maximum number of volumes is now 2. Note That all tapes must be requested prior to running the program.

#### 2. The input deck

##### a. error and volume card

The first card of the data deck must ~~cont~~ be this card.

In col. 1 should be the number of errors after which to terminate the search. If the tape was only partially written, this should be 1, indicating that where writing stopped (parity or sequence error) should be considered the end of the dump, and SAVETSS should not scan beyond that point.

col 2 is the number of volumes  
in the dump

## b. search directives

following the card mentioned in  
(a) above come the search directive.  
Each directive is a sequence of  
names, ~~ending~~ 1 name per card,  
~~ending in the name~~ with a  
card with only an asterise in col. 1.

The first name of each directive  
is looked up in RootD. Then, at each  
step, if another name remains in the  
directive, it is looked up ~~using~~ the object  
obtained in the previous step as the  
ownership directory. If no more names  
exist in the directive the current object  
is retrieved as a file. A null directive  
(one with no names) terminates the  
program.

NOTE: The full path from RootD must  
be specified for each object. Objects  
may not be referenced through softlinks  
in any directory. Hard links will be  
found in the directory, but may not  
be located while scanning the tape.  
Therefore: REFERENCE EVERY OBJECT  
THROUGH OWNERSHIP ENTRIES.

## c. example ..

col

1 Z . . . . .

80

(error & volume card)

2 Z

{ scan to 2nd error, There is only one volume}

(1st directive)

(note no \* card here)

~~RECORDS~~  
PDLIST

TSS

LDR.S

DSKLST

\*

(retrieve the file corresponding to  
↑ROOTD:PDLIST:TSS:LDR.S:DSKLST )

PUBLIC

EDITOR

\*

(Note: This may not work.. PDLIST:EDITOR  
is a hard link!)

\*

(attempting to save ROOTD signifies the  
end of input data).

## B OUTPUT

### 1. The files...

a) The files themselves are written out on ~~TAPE2~~, the fileset named TAPE2. The ~~gettpe~~ GETTPE directory is written out on the Fileset TAPE1. Thus, after running saveTSS, the following control cards will ~~be~~ produce the DUMPTPE/GETTPE compatible tape.

Request, SAVTAPE, X. output name  
Rewind, Tape1.

Rewind, Tape2.

Copy b\$, tape1, ~~gettpe~~ SAVTAPE.

Copy, tape2, Savtape.

### 2. b) Loading back into TSS

mount the tape and call  
GETTPE.

The files will come into TSS as files named using lead conventions under the current user name. The file names are constructed out of the first ≤ 7 characters of the last name in each specifier for which an object was located.

BEWARE: This may result in duplicate names during GETTPE...  
e.g.

SAVEFILE and ~~SAVFILE~~  
SAVEFILX

would both be loaded onto  
SAVEFILE.

## 2. Printed output.

SAUETSS prints various messages.

- a) at the beginning of each scan,  
the tape label is printed
- b) each name<sup>in a directive</sup>  
~~in a dir as~~  
is printed in turn  
searching

SEARCH TO <NAME>

when any name is not found the rest of the directive after which it was a part is skipped and the next directive processed. This may happen two ways:

THAT NAME NOT FOUND means the name could not be found in the current directory.

OBJECT NOT FOUND indicates that the entry was found, but that the file is not on the tape.

usually this message will be preceded by one of the following 2.

\*\*\* EOF \*\*\*

means that the end of the tape was encountered

TOO MANY ERRORS

means that the error count has been reached. The scan stops here with the EOF message following.

Parity errors produce the message

\*\*\* PARITY ERROR \*\*\*

followed by information as to what was lost.

LOST DATA BLOCK IN OBJECT unnnnn B.

or

LOST OBJECT NUMBER unnnnn B.

RECOVERY WITH OBJECT unnnnn B.

Each of the above occurrences if not following a parity error, is an error in its own right. However, if a parity error precedes either of the above two circumstances, the whole mess counts as 1 error.

Any message beginning  
DIRECTORY ERROR ...

indicates either a bug or that  
the object currently in hand is not  
a directory. Check your data.

That's about all, good luck.

ah ha!

### Sample deck

Job card

800BPI:

Request, TAPE3, HY. 4657 TSS disk dump

[ run save tss.

RUN.

~~END~~. CLDR. or whatever

RFL, 10000.

Rewind, TAPE 1.

Rewind, TAPE2.

~~Request,~~

UNLOAD, TAPE3.

Request, TAPE X, nnnn OUTPUT

Copy 6f, Tape1, Tape,,4096.

copy, tape2, tape,,4096.

{ EXIT.

QMP, 40000. just for me, Thanks.

?  
9

[ whatever, right

?  
1

? errors  
; tape

[ directive

[ directive

?  
GOII