

MEMO TO: Corby

FROM: M.A.P.

DATE: February 23, 1968

SUBJECT: Segment Registry Statistics Package

Organization

Main program is SRSTAT (MAD). It reads and unpacks records from the Segment Registry (file SEG REG), then calls on various functions (with argument equal to 0) as described below to let them do what they want to each card. When the end of the file is reached, each function is called with argument equal to 1, so that it can output its results. Which functions it calls on any given run are determined by the value of OPT, which it reads from the console. OPT is octal coded as follows: if 1's bit on, call function CORBY (this is the free function; an outline of how it should look exists in my file directory as CORBY MAD); if 2's bit on, call FUNC1 (described below); if 4's bit on, call FUNC2 (described below); if 8's bit on (10K), call FUNC3, etc. That is, 77K would call CORBY and FUNC's 1 through 5. OPT = \$ ALL\$ will cause all functions to be called.

Note that the unpacking is performed with Program Common, with names of variables the same as on the 645 printout of the Registry (except that Segment Name = NAME). The statement INSERT FILE COMSTF in a function allows the function to access the current card's unpacked data. Names may be gotten by printing COMSTF MAD.

Usage

Link to the following, in T234 3711:

SRSTAT	BSS
SEG	REG
FUNCL	BSS
CORBY	BSS (unless this function is being furnished)

Then:

L0ADG0 SRSTAT FUNCL CORBY

Program will ask for options as follows:

OPTIONS, PLEASE. REMEMBER FORMAT IS OPT=NK*

Type:

OPT = nK*

where n is the specific option setting chosen; e.g. to invoke only the CORBY routine, type

OPT = 1K*

The final "*" is important, as the READ DATA statement requires it and nothing will happen without it.

February 23, 1968

Page Two

Functions

Only FUNC1 has been coded currently. It does simple totals; sample attached.

FUNC2, soon to be coded, will do module-size averaging and take source/text ratios--per language.

FUNC3 will do breakdowns; that is, for AREA, RN, MS, DS, LANG, PHASE, and BUG, it will tabulate the number of instances of each sub-category in each of these categories.

FUNC4 will (when the data are available) check on declaration as follows:
W'R LANG.E.\$ P\$.AND.SP.NE.O, subtract SP from TP, count, add difference to total, and average at end.

FUNC5 will (eventually) do a histogram sort of thing on dates last modified.

To write a function, the following notes should be taken into account:

1. External function (SW); named CØRBY.
2. Whenever SW = 1, go to output phase.
3. Include the common declaration; i.e., INSERT FILE CØMSTF.
4. LØADGØ it instead of the dummy version of CØRBY.

MP/jmd

Attachment

LOADGO SYSTAT FUNC1 COPY

W 1309.2

EXECUTION.

OPTIONS, PLEASE. REMEMBER FORMAT IS OPT=NK*

opt=2k*

TOTAL NUMBER OF SEGS ON LIBRARY= 512

MULTICS SEGS ON LIBRARY= 439

281 ARE PROCEDURE SEGS

6 ARE DATA SEGS

TOTAL TEXT LENGTH (OCTAL)= 000001104450

TOTAL LINK LENGTH (OCTAL)= 000000066361

NUMBER WITH NO TEXT, LINK GIVEN= 1

} will be converted to decimal

MULTICS SOURCE CODE PAGES IN EPL

TOTAL IS 1351

WITHOUT DCLS= 0

MULTICS SOURCE CODE PAGES IN EPLBSA

TOTAL IS 350

WITHOUT DCLS= 0

35 WITH NO TP, 512 WITH NO SP GIVEN

NON-MULTICS SEGMENTS ON LIBRARY

TOTAL NUMBER OF 6.36 SEGS= 41

0 ARE PROCEDURE SEGS

0 ARE DATA SEGS

TOTAL SOURCE PAGES= 213

WITHOUT DCLS= 0

TOTAL NUMBER OF LANGUAGES SEGS = 8

8 ARE PROCEDURE SEGS

0 ARE DATA SEGS

TOTAL SOURCE PAGES= 19

WITHOUT DCLS= 0

TOTAL NUMBER OF OTHER SEGS= 24

0 ARE PROCEDURE SEGS

0 ARE DATA SEGS

TOTAL SOURCE PAGES= 60

WITHOUT DCLS= 0

TOTAL NUMBER OF SEGS NOT ON LIBRARY= 366

305 ARE PROCEDURE SEGS

53 ARE DATA SEGS

NUMBER OF PAGES (EST.) OF EPL REQUIRED= 592

OF EPLBSA= 36

0 HAD NO ESTIMATE GIVEN

EXIT CALLED. PM MAY BE TAKEN.

R 24.400+2.383

W 1315.0

CORBY MAD 02/23 1315.1

EXTERNAL FUNCTION (SW)
 E'Q CORBY
 N'R
 W'R SW.E.1, T'O OUTPUT
 F'N
 C'E
 F'N
 E'N
 E'M

*Here is where INSERT FILE
 CONSTE should
 go
 (whoops)*

OUTPUT

Here is where processing goes

R .633+.216

Here is where output goes

print constf mad
W 1346.2

COMSTF MAD 02/23 1346.3

PROGRAM COMMON NAME(6), AUT, T, AREA, RN, MSPM, MS, DS, NP, LANG, PH,
:1 LIB, UPDTD, MOD, BUG, TEXT, LINK, TP, SP, FILENA
R .333+.533



In order of appearance
on form