

```

0 CVORDLIST(34)
1 '3 00 00 00 00'
2 '1 00 00 15 07'
3 '3 24 01 03 15'
4 '1 22 30 01 20'
5 '3 00 00 13 03'
6 '3 00 03 34 01'
7 '1 26 14 11 11'
8 '1 31 14 01 05'
9 '1 16 03 15 25'
10 '1 26 12 03 07'
11 '0 24 01 30 16'
12 '1 00 00 36 61'
13 '1 00 00 36 70'
14 '0 24 00 12 14'
15 '1 00 00 30 11'
16 '3 01 14 07 20'
17 '3 00 00 03 36'
18 '3 00 00 06 03'
19 '3 24 36 14 15'
20 '3 00 00 12 20'
21 '3 01 30 15 20'
22 '1 00 00 00 30'
23 '1 00 00 00 23'
24 '1 00 00 12 20'
25 '1 00 00 15 34'
26 '3 00 00 14 06'
27 '1 00 15 11 03'
28 '3 12 20 20 11'
29 '1 00 00 00 16'
30 '1 34 06 14 01'
31 '3 24 11 03 31'
32 '3 00 12 34 06'
33 '0 26 03 12 07'
34 '3 00 00 00 24'
35 CWRIS(11)
36 '000 400 000'[:UENDMES + 4]
37 '001 400 000'[:CPMMES]
38 '006 400 000'[:CFILL]
39 '010 400 000'[:CORY]
40 '023 400 000'[:UMESS]
41 '027 000 000'[:CREMES + 5]
42 '003 400 000'[:CDATE]
43 '030 000 000'[:CPLUMES+6]
44 '032 000 000'[:CPLUMES+14]
45 '035 400 000'[:JUNITMES]
46 - '015 000 000'[:CSERIAL + 3]
47 ULRHANDLE11(10)
48 - 0
49 - 0
50 - 0
51 - 0
52 - 0
53 :USBRM1
54 - 0
55 0
56 0
57 :CLRFB11
58 ULRHANDLE21(10)

```

```

" SS
" 1 RMSP
" 2 STOPSS
" 3 DATESP
" 4 GOSS
" 5 OUTSS
" 6 FILLSP
" 7 WITHSP
" 10 CORYSP
" 11 FROMSP
" 12 STAC
" 13 K+SP
" 14 K-SP
" 15 SERI
" 16 ALSP
" 17 TIMESP
" 20 OKSS
" 21 NOSS
" 22 SKIRSS
" 23 RESS
" 24 TARESS
" 25 ASP
" 26 BSP
" 27 RESP
" 30 RUSP
" 31 INSS
" 32 PLOSP
" 33 REELSS
" 34 CSP
" 35 UNITSP
" 36 SLOWSS
" 37 RUNSS
" 40 FORM
" 41 SSS

" SS
" RMSP
" FILLSP
" CORYSP
" RESS
" RESP
" DATESP
" RUSP
" PLOSP
" SERI

" NPOR
" NFD

" ATTACHING LABEL
" DETACHING LABEL

" ATTACHING TIME (FLOATING)

```

list of words occurring in operator messages

list of words that are possible openings of operator messages

more i/o stream handles (can variables)



```

59      - 0
60      - 0
61      - 0
62      - 0
63      - 0
64      :USBRM2
65      - 0
66      0
67      0
68      :CLPB21
69  ULRHANDLE31(10)
70      - 0
71      - 0
72      - 0
73      - 0
74      - 0
75      :USBRM3
76      - 0
77      0
78      0
79      :CLPB31
80  ULRHANDLE41(10)
81      - 0
82      - 0
83      - 0
84      - 0
85      - 0
86      :USBRM4
87      - 0
88      0
89      0
90      :CLPB41
91  ULRHANDLE51(10)
92      - 0
93      - 0
94      - 0
95      - 0
96      - 0
97      :USBRM5
98      - 0
99      0
100     0
101     :CLPB51

```

```

102  USTACKPLA(26)
103     - 0
104     + 1
105     - 0
106     - 0
107     - 0
108     - 0
109     - 0
110     - 0
111     - 0
112     - 0
113     - 1
114     + 1
115     :UTEXPLU
116     - 0
117     - 0

```

```

" UKILLCOUNTER
" UKILLVAR
" UAMTELREQ
" UAMVAR
" UAMSEM

" USCAMSEM

" UHAMR, BLOCKED
" RED
" T, DEAF
" A
" S

```

} Stack bottoms of CM's

```

118      - 0
119      - 0
120      :UWRPLA
121      :USBRPLA(- 2)
122      - 0
123      - 0
124      - 0
125      - 0
126      U, S = 0
127      :USBRPLA
128      :UARPLA

129  USTACKTRA(26)
130      - 0
131      + 1
132      - 0
133      - 0
134      - 0
135      - 0
136      - 0
137      - 0
138      - 0
139      - 0
140      - 1
141      + 1
142      :UTEXTPLU
143      - 0
144      - 0
145      - 0
146      - 0
147      :UWRTRA
148      :USBTRA(- 2)
149      - 0
150      - 0
151      - 0
152      - 0
153      U, S = 0
154      :USBTRA
155      :UARTRA
156  USBTRA(23)
157      :UIETTRA
158      - 0
159      :USCHAKELTRA(1)
160      - 0
161      :UTRVAR
162      - 0
163      UINVTRM26A
164      - 0
165      - 0
166      + 0
167      :USBTRB
168      UINVTRM28A
169      - 0
170      - 0
171      - 0
172      - 0
173      - 0
174      - 0
175      UINVTRB
176      - 0

```

```

" F
" B
" D, ADDRESS BOTTOM DISPLAY
" LOAD
" WEIGHT
" D[0] BOTTOM DISPLAY

" UKILLCOUNTER
" UKILLYAR
" UAMTELREQ
" UAMVAR
" UAMSEM
" USCAMSEM
" UHAMR, BLOCKED
" RED
" T, DEAF
" A
" S
" F
" B
" D, ADDRESS BOTTOM DISPLAY
" LOAD
" WEIGHT
" D[0] BOTTOM DISPLAY

" UCURSTR
" ULALAB
" URLUSEG
" URLUTYPE
" URLUDISC
" UM12
" UHOKRLU
" UCYCLE
" UM28
" ULAST
" UEXNUM
" UEXNUMDOC
" ULENGTHSEG
" UCUTVAR
" UAVAILTAPE
" UTLETTER
" URUNARROW

```

own semaphore

semaphore for comm. with sequent controller (drum process)

initialization of T upon reading in of system.

space to save registers when this process is not the active one.

more own variables of tape punch A

```

177      UINVM20A      " UM20
178      UINVM23A      " UM23
179      - 0           " USPECIALRLU

180 USTACKTRB(26)
181      - 0           " UKILLCOUNTER
182      + 1           " UKILLVAR
183      - 0           " UAMTELREQ
184      - 0           " UAMVAR
185      - 0           " UAMSEM
186      - 0
187      - 0
188      - 0           " USCAMSEM
189      - 0
190      - 0
191      - 1           " UHAMR, BLOCKED
192      + 1           " RED
193      :UETXRLU     " T, DEAF
194      - 0           " A
195      - 0           " S
196      - 0           " F
197      - 0
198      :UWRTRB      " B
199      :USBTRB(- 2) " D, ADDRESS BOTTOM DISPLAY
200      - 0           " LOAD
201      - 0
202      - 0           " WEIGHT
203      - 0
204      U, $ = 0
205      :USBTRB      " D[0] BOTTOM DISPLAY
206      :UARTRB
207 USBTRB(23)
208      :UETTRB      " UCURSTR
209      - 0           " ULALAB
210      :USCHAKELTRB[1] " URLUSEG
211      - 0           " URLUTYPE
212      :UTRVAR      " URLUDISC
213      - 0           " UM12
214      UINVTRM26B   " UHOKRLU
215      - 0
216      - 0
217      + 0
218      :USBTRC      " UCYCLE
219      UINVTRM28B   " UM28
220      - 0           " ULAST
221      - 0           " UEXNUM
222      - 0           " UEXNUMDQC
223      - 0           " ULENGTHSEG
224      - 0           " UCUTVAR
225      - 0           " UAVAILTARE
226      UINVTRB      " UTRLETTER
227      - 0           " UPUNARROW
228      UINVM20B     " UM20
229      UINVM23B     " UM23
230      - 0           " USPECIALRLU

231 USTACKTRC(26)
232      - 0           " UKILLCOUNTER
233      + 1           " UKILLVAR
234      - 0           " UAMTELREQ
235      - 0           " UAMVAR

```

236	- 0	" UAMSEM
237	- 0	
238	- 0	
239	- 0	" USCAMSEM
240	- 0	
241	- 0	
242	- 1	" UHAMR, BLOCKED
243	+ 1	" RED
244	:UTEXTRLU	" T, DEAF
245	- 0	" A
246	- 0	" S
247	- 0	" E
248	- 0	
249	:UWRTRC	" B
250	:USBTRC[- 2]	" D, ADDRESS BOTTOM DISPLAY
251	- 0	" LOAD
252	- 0	
253	- 0	" WEIGHT
254	- 0	
255	U, S = 0	
256	:USBTRC	" D[0] BOTTOM DISPLAY
257	:UARTRC	
258	USBTRC(23)	
259	:UIETTRC	
260	- 0	" UCURSTR
261	:USCHAKELTRC(1)	" ULALAB
262	- 0	" URLUSEG
263	:UTRVAR	" URLUTYPE
264	- 0	" URLUDISC
265	UINVTRM26C	" UM12
266	- 0	" UHOKRLU
267	- 0	
268	+ 0	
269	:USBTRA	" UCYCLE
270	UINVTRM28C	" UM28
271	- 0	" ULAST
272	- 0	" UEXNUM
273	- 0	" UEXNUMDOC
274	- 0	" ULENGTHSEG
275	- 0	" UCUTVAR
276	- 0	" UAVAILTARE
277	UINVTRC	" UTRLETTER
278	- 0	" URUNARROW
279	UINVM20C	" UM20
280	UINVM23C	" UM23
281	+ 101	" USPECIALRLU
282	USTACKLRA(26)	
283	- 0	" UKILLCOUNTER
284	+ 1	" UKILLVAR
285	- 0	" UANTELREQ
286	+ 2	" UAMVAR
287	- 0	" UAMSEM
288	- 0	
289	- 0	
290	- 0	" USCAMSEM
291	- 0	
292	- 0	
293	- 1	" UHAMR, BLOCKED

```

294          + 1          " RED
295          :CLPTXT      " T, DEAF
296          - 0          " A
297          - 0          " S
298          - 0          " F
299          - 0
300          :UWRLPA      " B
301          :USBLPA(- 2) " D, ADDRESS BOTTOM DISPLAY
302          - 0          " LOAD
303          - 0
304          - 0          " WEIGHT
305          - 0
306          U, $ = 0
307          :USBLPA      " D[0] BOTTOM DISPLAY
308          :UARLPA

309 USTACKTRA(26)
310          - 0          " UKILLCOUNTER
311          + 1          " UKILLVAR
312          - 0          " UAMTELREQ
313          + 9          " UAMVAR
314          - 0          " UAMSEM
315          - 0
316          - 0
317          - 0          " USCAMSEM
318          - 0
319          - 0
320          - 1          " UHAMR, BLOCKED
321          + 1          " RED
322          :UJEXTTR     " T, DEAF
323          - 0          " A
324          - 0          " S
325          - 0          " F
326          - 0
327          :USBTRA(UTRLOC) " B
328          :USBTRA(- 2) " D, ADDRESS BOTTOM DISPLAY
329          - 0          " LOAD
330          - 0
331          - 0          " WEIGHT
332          - 0
333          U, $ = 0
334          :USBTRA      " D[0] BOTTOM DISPLAY
335          :UARTRA
336 USBTRA(UTRLOC)
337          :UJETTRA     " ADDRESS HARDWARE SEMAPHORE
338          - 0          " UCURSTR
339          :USCHAKELTRA[1] " ULALAB
340          - 0          " UTRSEG
341          - 0          " UTRSLOT
342          - 0          " UDISC
343          UINVM12A     " UM12
344          - 0          " UHOKMAP
345          - 0
346          + 0
347          - 0
348          - 0
349          :UVUJL['2 777 777']
350          - 0          " UNUMWSEG
351          UINVM1A     " UM1
352          UINVM8A     " UM8

```

353	UINVM14A	" UM14
354	- 0	" USPECIALTR
355	USTACKTRB(26)	
356	- 0	" UKILLCOUNTER
357	+ 1	" UKILLVAR
358	- 0	" UAMTELREQ
359	+ 9	" UAMVAR
360	- 0	" UAMSEM
361	- 0	
362	- 0	
363	- 0	" USCAMSEM
364	- 0	
365	- 0	
366	- 1	" UHAMP, BLOCKED
367	+ 1	" RED
368	:UTEXTTR	" T, DEAF
369	- 0	" A
370	- 0	" S
371	- 0	" E
372	- 0	
373	:USBTRB(UTRLOC)	" B
374	:USBTRBI- 21	" D, ADDRESS BOTTOM DISPLAY
375	- 0	" LOAD
376	- 0	
377	- 0	" WEIGHT
378	- 0	
379	U, S = 0	
380	:USSTRB	" D[D] BOTTOM DISPLAY
381	:UARTRB	
382	USBTRB(UTRLOC)	
383	:UIETTRB	" ADDRESS HARDWARE SEMAPHORE
384	- 0	" UCURSTR
385	:USCHAKELTRB(11)	" ULALAB
386	- 0	" UTRSEG
387	- 0	" UTRSL0T
388	- 0	" UDISC
389	UINVM12B	" UM12
390	- 0	" UHOKHAR
391	- 0	
392	+ 0	
393	- 0	
394	- 0	
395	:UVUILL('2 777 777')	
396	- 0	" UNUMWSEG
397	UINVM1B	" UM1
398	UINVM8B	" UM8
399	UINVM14B	" UM14
400	- 0	" USPECIALTR
401	USTACKTRC(26)	
402	- 0	" UKILLCOUNTER
403	+ 1	" UKILLVAR
404	- 0	" UAMTELREQ
405	+ 9	" UAMVAR
406	- 0	" UAMSEM
407	- 0	
408	- 0	
409	- 0	" USCAMSEM
410	- 0	
411	- 0	

```

412      - 1      " UHAMR, BLOCKED
413      + 1      " RED
414      :UTEXTTR  " T, DEAF
415      - 0      " A
416      - 0      " S
417      - 0      " F
418      - 0
419      :USBTRC(UTRLOC)  " B
420      :USBTRC[- 2]    " D, ADDRESS BOTTOM DISPLAY
421      - 0      " LOAD
422      - 0
423      - 0      " WEIGHT
424      - 0
425      U, S = 0
426      :USBTRC      " D[0] BOTTOM DISPLAY
427      :UABTRC
428      USBTRC(UTRLOC)
429      :UIFTRC      " ADDRESS HARDWARE SEMAPHORE
430      - 0      " UCURSTR
431      :USCHAKELTRC[1]  " ULALAB
432      - 0      " UTRSEG
433      - 0      " UTRSLOT
434      - 0      " UDISC
435      UINVM12C      " UM12
436      - 0      " UHOKMAR
437      - 0
438      + 0

439      - 0
440      - 0
441      :UVVILI'2 777 777'1
442      - 0      " UNUMWSEG
443      UINVM1C      " UM1
444      UINVM8C      " UMB
445      UINVM14C     " UM14
446      +99      " USPECIALTR

447      USTACKDR(26)
448      - 0      " UKILLCOUNTER
449      + 1      " UKILLVAR
450      - 0      " UAMTELREQ
451      - 0      " UAMVAR
452      - 0      " UAMSEM
453      - 0
454      - 0
455      - 0      " USCAMSEM
456      - 0
457      - 0
458      - 0      " UHAMR, SELECTABLE
459      + 1      " RED
460      :UTEXTRUM      " T, DEAF
461      - 0      " A
462      - 0      " S
463      - 0      " F
464      - 0
465      :UWRDR      " B
466      :USBDR[- 2]    " D, ADDRESS BOTTOM DISPLAY
467      - 0      " LOAD
468      - 0
469      - 0      " WEIGHT

```



```

470      - 0
471      U, S = 0
472      :USBDR           " D[0] BOTTOM DISPLAY
473      :UARDR
474      USBDR(4)
475      :UIRTDR
476      - 0
477      :UDRUMMAG(2)
478      + 0

479      USTACKM(26)
480      - 0           " UKILLCOUNTER
481      + 1           " UKILLVAR
482      - 0           " UAMTELREQ, OPERATOR PRIORITY FALSE
483      - 0           " UAMVAR, COMVAR
484      - 0           " UAMSEM
485      - 0
486      - 0
487      - 0           " USCAMSEM
488      - 0
489      - 0
490      - 1           " UHAMR, BLOCKED
491      + 1           " RED
492      :CMI           " T, DEAF → T for message interpreter after system initialization
493      - 0           " A
494      - 0           " S
495      - 0           " F
496      - 0
497      :UVRM!         " B
498      :USBM1[- 2]   " D, ADDRESS BOTTOM DISPLAY
499      - 0           " LOAD
500      - 0
501      - 0           " WEIGHT
502      - 0
503      U, S = 0
504      :USBM1         " D[0] BOTTOM DISPLAY
505      :UARCK
506      UEXTRA1(10)
507      '377 737 777'
508      '377 737 777'
509      '377 737 777'
510      '377 737 777'
511      '377 737 777'
512      '377 737 777'
513      '377 737 777'
514      '377 737 777'
515      '377 737 777'
516      '377 737 777'
517      UEXTRA2(10)
518      '377 737 777'
519      '377 737 777'
520      '377 737 777'
521      '377 737 777'
522      '377 737 777'
523      '377 737 777'
524      '377 737 777'
525      '377 737 777'
526      '377 737 777'
527      '377 737 777'
528      UEXTRA3(10)

```

*T for message interpreter after system initialization
apparently all small registers b₂₆-b₁₈ are set to 0*

529 '377 737 777'
530 '377 737 777'
531 '377 737 777'
532 '377 737 777'
533 '377 737 777'
534 '377 737 777'
535 '377 737 777'
536 '377 737 777'
537 '377 737 777'
538 '377 737 777'
539 UEXTRA4(10)
540 '377 737 777'
541 '377 737 777'
542 '377 737 777'
543 '377 737 777'
544 '377 737 777'
545 '377 737 777'
546 '377 737 777'
547 '377 737 777'
548 '377 737 777'
549 '377 737 777'
550 UEXTRA5(10)
551 '377 737 777'
552 '377 737 777'
553 '377 737 777'
554 '377 737 777'
555 '377 737 777'
556 '377 737 777'
557 '377 737 777'
558 '377 737 777'
559 '377 737 777'
560 '377 737 777'
561 UEXTRA6(10)
562 '377 737 777'
563 '377 737 777'
564 '377 737 777'
565 '377 737 777'
566 '377 737 777'
567 '377 737 777'
568 '377 737 777'
569 '377 737 777'
570 '377 737 777'
571 '377 737 777'
572 UEXTRA7(10)
573 '377 737 777'
574 '377 737 777'
575 '377 737 777'
576 '377 737 777'
577 '377 737 777'
578 '377 737 777'
579 '377 737 777'
580 '377 737 777'
581 '377 737 777'
582 '377 737 777'
583 UEXTRA8(10)
584 '377 737 777'
585 '377 737 777'
586 '377 737 777'
587 '377 737 777'
588 '377 737 777'

```

589      '377 737 777'
590      '377 737 777'
591      '377 737 777'
592      '377 737 777'
593      '377 737 777'
594 UEXTRA9(10)
595      '377 737 777'
596      '377 737 777'
597      '377 737 777'
598      '377 737 777'
599      '377 737 777'
600      '377 737 777'
601      '377 737 777'
602      '377 737 777'
603      '377 737 777'
604      '377 737 777'
605 UEXTRA10(10)
606      '377 737 777'
607      '377 737 777'
608      '377 737 777'
609      '377 737 777'
610      '377 737 777'
611      '377 737 777'
612      '377 737 777'
613      '377 737 777'
614      '377 737 777'
615      '377 737 777'

```

616 USTACKPM1(28)

```

617      - 0
618      - 0
619      - 0
620      - 0
621      - 0
622      - 0
623      - 0
624      - 0
625      - 0
626      - 0
627      - 0
628      - 0
629      - 0
630      - 0
631      :UTEXTRM[1]
632      - 0
633      - 0
634      - 0
635      - 0
636      :UWPRM1
637      :UDISPRM1[2]
638      ULOADM
639      ULOADT
640      '776 500 000'
641      + 1
642      :UDISPRM1[2]
643      :USPRM1[4]
644      0
645 USPRM1(116)
646      :UWPRM1
647      A = MD[0]

```

```

" SV NEXT STACK PAGE
" NO CHAIN TO PREVIOUS PAGE
" UKILLCOUNTER
" UKILLVAR
" UAMTELREQ
" UAMVAR
" UAMSEM

" USCAMSEM

" UHAMR, SELECTABLE
" WHITE
" T, DEAF
" A
" S
" F

" B
" D, ADDRESS BOTTOM DISPLAY
" LOAD } used processor time
" WEIGHT, 2 + (= 10) FLOATING

" ADDRESS BOTTOM DISPLAY
" SV LINK, :P[0] BOTTOM SV LIST
" NO RETURN LRR

" WP
" BLOCK HEIGHT ZERO

```

5 stackbottoms for PM's

stack pages are chained initially only one s.p.

648	- 0	" R1- 2] BOTTOM \$V LIST, INDICATION LAST LIST
649	1	" RM NUMBER
650	- 0	" GL23, BOOLEAN READ FROM EMPTY \$V FALSE
651	- 0	" GL24, NUMBER OF P-SEGMENTS RM1
652	- 0	" GL25, NUMBER OF BORROWED STACKPAGES
653	- 0	" GL16, NUMBER OF GRANTED STACKPAGES
654	- 0	" NSP, FIRST FREE PLACE IN NEW STACKPAGE
655	- 0	" WARNINGPOINT P-INCREASE
656	UINVM341	" UM34
657	UINVM351	" UM35
658	UINVM361	" UM36
659	- 0	" UKILLSEM
660	- 0	
661	- 0	
662	UINVMH01	" UVHO
663	CINVMNN	" UPROGID
664	- 0	" URUNNUM
665	- 0	" UBLOCKSTR
666	:UTRSTRL1	" BASIC ADDRESS LIST OF OWN TAPERED STREAMS
667	:ULPSTRL1	" BASIC ADDRESS LIST OF OWN PRINTER STREAMS
668	:UTRSTRL1	" BASIC ADDRESS LIST OF OWN PUNCH STREAMS
669	:URLSTRL1	" BASIC ADDRESS LIST OF OWN PLOTTER STREAMS
670	- 0	" UREQUEST, NUMBER OF REQUESTED OUTPUT SEGMENTS
671	- 0	" UFINISHDOUBTEUL, USED IN BANKER
672	- 0	" ULOANRUN
673	- 0	" UCLAIMRUN
674	- 0	" UDOCRUN, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
675	- 0	" ULOANPLO
676	- 0	" UCLAIMPLO
677	- 0	" UDOCPLO, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
678	- 0	" GL0, INVARIANT TARGET ADDRESS
679	- 0	" GL1, TARGET LRP
680	- 0	" GL3, USED IN ARRAY DECLARATION
681	- 0	" GL4, USED IN ARRAY DECLARATION
682	- 0	" GL5, USED IN ARRAY DECLARATION
683	- 0	" GL6, USED IN ARRAY DECLARATION
684	- 0	" GL7, USED IN ARRAY DECLARATION
685	- 0	" GLP, GLOBAL IMAGINARY PART
686	- 0	
687	SUBCD(:RSE57)	" FLV
688	U, S = 0	" FRV
689	DO(FRV)	" FCV
690	JUMP(2)	" FLVM
691	GOTO(:RSE64)	" FRVM
692	S = MS[2], Z	" FCVM
693	- 0	" GL17, POSITION IN BOOLEAN WORD
694	- 0	" GL18, USED IN ARRAY DECLARATION
695	- 0	" GL19, USED IN ARRAY DECLARATION
696	- 0	" GL20, USED IN ARRAY DECLARATION
697	- 0	" GL21, USED IN ARRAY DECLARATION
698	- 0	" GL26, INVARIANT ADDRESS IN CURRENT PROGRAM SEGMENT
699	- 0	" CGL1
700	-2 000 000	" GBILL
701	- 0	" UNITS
702	+1	" CSTECK
703	- 0	" UTRANSTIME
704	- 0	" CGL2
705	- 0	" ULIST
706	- 0	" UKIND

```

707      - 0
708      '377 737 777'
709      '377 737 777'
710      '377 737 777'
711      '377 737 777'
712      '377 737 777'
713      '377 737 777'
714      '377 737 777'
715      '377 737 777'
716      '377 737 777'
717      '377 737 777'
718      '377 737 777'
719      '377 737 777'
720      '377 737 777'
721      '377 737 777'
722      '377 737 777'
723      '377 737 777'
724      '377 737 777'
725      '377 737 777'
726      '377 737 777'
727      '377 737 777'
728      '377 737 777'
729      '377 737 777'
730      '377 737 777'
731      '377 737 777'
732      '377 737 777'
733      '377 737 777'
734      '377 737 777'
735      '377 737 777'
736      '377 737 777'
737      '377 737 777'
738      '377 737 777'
739      '377 737 777'
740      '377 737 777'
741      '377 737 777'
742      '377 737 777'
743      '377 737 777'
744      '377 737 777'
745      '377 737 777'
746      '377 737 777'
747      '377 737 777'
748      '377 737 777'
749      - 0
750      - 0
751      - 0
752      - 0
753      - 0
754      - 0
755      - 0
756      - 0
757      - 0
758      - 0
759      0
760      510
761      0
762      UDISPRM1(3)
763      A = MD[0]
764      A = MD[0]
765      :USPRM1

```

" USPECIALRM

" JMTCLAIMED

```

" CGLSLOW
" CMTUSED
" JCURUNIT
" JMTENDR
"CGLSTV(3)
"END OF STRING

```

MDE[-1] and MDE[-2] also are part of the display .

MDE[-1] contains the current block height in the low order bits of the instruction A = MDE[...]. upon block-entry, 1 is added to MDE[-1], transforming A = MDE[0] into "A = MDE[1]"

executing DO(MDE[-1]) has the effect of making A equal to the

and this is :Mo
 this is the initial display

local reference point of the current block.
 This is done a lot to restore A, after it has been destroyed during
 execution of some system subroutine

```

766 USTACKPM2(28)
767 - 0 " SV NEXT STACK PAGE
768 - 0 " NO CHAIN TO PREVIOUS PAGE
769 - 0 " UKILLCOUNTER
770 - 0 " UKILLVAR
771 - 0 " UAMTELREQ
772 - 0 " UAMVAR
773 - 0 " UAMSEM
774 - 0
775 - 0
776 - 0 " USCAMSEM
777 - 0
778 - 0
779 - 1 " UHAMR, BLOCKED
780 - 0 " WHITE
781 :UTEXTRM(1) " T, DEAF
782 - 0 " A
783 - 0 " S
784 - 0 " E
785 - 0
786 :UWPRM2 " B
787 :UDISPRM2(2) " D, ADDRESS BOTTOM DISPLAY
788 ULOADH " LOAD
789 ULOADT
790 '776 500 000' " WEIGHT, 2 + (= 10) FLOATING
791 + 1
792 :UDISPRM2(2) " ADDRESS BOTTOM DISPLAY
793 :USPRM2(4) " SV LINK, :P(0) BOTTOM $V LIST
794 0 " NO RETURN LRP
795 USPRM2(116)
796 :UWPRM2 " WP
797 A = MQ(0) " BLOCK HEIGHT ZERO
798 - 0 " P(- 2) BOTTOM $V LIST, INDICATION LAST LIST
799 2 " RM NUMBER
800 - 0 " GL23, BOOLEAN READ FROM EMPTY $V FALSE
801 - 0 " GL24, NUMBER OF P-SEGMENTS PM2
802 - 0 " GL25, NUMBER OF BORROWED STACKPAGES
803 - 0 " GL16, NUMBER OF GRANTED STACKPAGES
804 - 0 " MSP, FIRST FREE PLACE IN NEW STACKPAGE
805 - 0 " WARNINGPOINT P-INCREASE
806 UINVM342 " UM34
807 UINVM352 " UM35
808 UINVM362 " UM36
809 - 0 " UKILLSEM
810 - 0
811 - 0
812 UINVVH02 " UVH0
813 CINVMNN " UPRGID
814 - 0 " UPRUNUM
815 - 0 " UBLOCKSTR
816 :UTRSTRL2 " BASIC ADDRESS LIST OF OWN TAPERED STREAMS
817 :ULPSTRL2 " BASIC ADDRESS LIST OF OWN PRINTER STREAMS
818 :UTPSTRL2 " BASIC ADDRESS LIST OF OWN PUNCH STREAMS
819 :UPLSTRL2 " BASIC ADDRESS LIST OF OWN PLOTTER STREAMS
820 - 0 " UREQUEST, NUMBER OF REQUESTED OUTPUT SEGMENTS
821 - 0 " UFINISHDOUBTEUL, USED IN BANKER
822 - 0 " ULOANRUM
823 - 0 " UCLAIMRUM
824 - 0 " UDOCRUM, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
825 - 0 " ULOANRLO

```

826	- 0	" UCLAIMPLO
827	- 0	" UDOCPLQ, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
828	- 0	" GL0, INVARIANT TARGET ADDRESS
829	- 0	" GL1, TARGET LRP
830	- 0	" GL3, USED IN ARRAY DECLARATION
831	- 0	" GL4, USED IN ARRAY DECLARATION
832	- 0	" GL5, USED IN ARRAY DECLARATION
833	- 0	" GL6, USED IN ARRAY DECLARATION
834	- 0	" GL7, USED IN ARRAY DECLARATION
835	- 0	" GIP, GLOBAL IMAGINARY PART
836	- 0	
837	SUBCD(:PSE57)	" FLV
838	U, S = 0	" FRV
839	DO(FRV)	" FCV
840	JUMP(2)	" FLVM
841	GOTO(:PSE64)	" FRVM
842	S = MS[2], Z	" FCVM
843	- 0	" GL17, POSITION IN BOOLEAN WORD
844	- 0	" GL18, USED IN ARRAY DECLARATION
845	- 0	" GL19, USED IN ARRAY DECLARATION
846	- 0	" GL20, USED IN ARRAY DECLARATION
847	- 0	" GL21, USED IN ARRAY DECLARATION
848	- 0	" GL26, INVARIANT ADDRESS IN CURRENT PROGRAM SEGMENT
849	- 0	" CGL1
850	-2 000 000	" GBILL
851	- 0	" UNITS
852	+ 1	" CSTECK
853	- 0	" UTRAN\$TIME
854	- 0	" CGL2
855	- 0	" ULIST
856	- 0	" UKIND
857	- 0	" USPECIALPM
858	'377 737 777'	
859	'377 737 777'	
860	'377 737 777'	
861	'377 737 777'	
862	'377 737 777'	
863	'377 737 777'	
864	'377 737 777'	
865	'377 737 777'	
866	'377 737 777'	
867	'377 737 777'	
868	'377 737 777'	
869	'377 737 777'	
870	'377 737 777'	
871	'377 737 777'	
872	'377 737 777'	
873	'377 737 777'	
874	'377 737 777'	
875	'377 737 777'	
876	'377 737 777'	
877	'377 737 777'	
878	'377 737 777'	
879	'377 737 777'	
880	'377 737 777'	
881	'377 737 777'	
882	'377 737 777'	
883	'377 737 777'	
884	'377 737 777'	
885	'377 737 777'	

886	'377 737 777'	
887	'377 737 777'	
888	'377 737 777'	
889	'377 737 777'	
890	'377 737 777'	
891	'377 737 777'	
892	'377 737 777'	
893	'377 737 777'	
894	'377 737 777'	
895	'377 737 777'	
896	'377 737 777'	
897	'377 737 777'	
898	'377 737 777'	
899	- 0	" JMTCLAIMED
900	- 0	
901	- 0	
902	- 0	
903	- 0	
904	- 0	
905	- 0	" CGLSLOW
906	- 0	" CNTUSED
907	- 0	" JCURUNIT
908	- 0	" JMTTEINDR
909	0	"CGLSTV(3)
910	510	"END OF STRING
911	0	
912	UDISPRM2(3)	
913	A = MD[0]	
914	A = MD[0]	
915	:USBRM2	
916	USTACKRM3(28)	
917	- 0	" SV NEXT STACK PAGE
918	- 0	" NO CHAIN TO PREVIOUS PAGE
919	- 0	" UKILLCOUNTER
920	- 0	" UKILLVAR
921	- 0	" UAMTELREQ
922	- 0	" UAMVAR
923	- 0	" UAMSEM
924	- 0	
925	- 0	
926	- 0	" USCAMSEM
927	- 0	
928	- 0	
929	- 1	" UHAMR, BLOCKED
930	- 0	" WHITE
931	:UTEXTRM[1]	" T, DEAF
932	- 0	" A
933	- 0	" S
934	- 0	" F
935	- 0	
936	:UWRPM3	" B
937	:UDISPRM3[2]	" D, ADDRESS BOTTOM DISPLAY
938	ULOADH	" LOAD
939	ULOADT	
940	'776 500 000'	" WEIGHT, 2 + (- 10) FLOATING
941	+ 1	
942	:UDISPRM3[2]	" ADDRESS BOTTOM DISPLAY
943	:USBRM3[4]	" SV LINK, :R[0] BOTTOM SV LIST
944	0	" NO RETURN LRP

945	USBRM3(116)		" WP
946	:UVRPM3		" BLOCK HEIGHT ZERO
947	A = MD(0)		" R[- 2] BOTTOM SV LIST, INDICATION LAST LIST
948	- 0		" RM NUMBER
949	3		" GL23, BOOLEAN READ FROM EMPTY SV FALSE
950	- 0		" GL24, NUMBER OF P-SEGMENTS RM3
951	- 0		" GL25, NUMBER OF BORROWED STACKPAGES
952	- 0		" GL16, NUMBER OF GRANTED STACKPAGES
953	- 0		" NSP, FIRST FREE PLACE IN NEW STACKPAGE
954	- 0		" WARNINGPOINT P-INCREASE
955	- 0		" UM34
956	UINVM343		" UM35
957	UINVM353		" UM36
958	UINVM363		" UKILLSEM
959	- 0		
960	- 0		
961	- 0		
962	UINYVHO3		" UWHO
963	CINYVMN		" URROGID
964	- 0		" URUNNUM
965	- 0		" UBLOCKSTR
966	:UTRSTR3		" BASIC ADDRESS LIST OF OWN TAPERADER STREAMS
967	:ULPSTR3		" BASIC ADDRESS LIST OF OWN PRINTER STREAMS
968	:UTPSTR3		" BASIC ADDRESS LIST OF OWN PUNCH STREAMS
969	:UPLSTR3		" BASIC ADDRESS LIST OF OWN PLOTTER STREAMS
970	- 0		" UREQUEST, NUMBER OF REQUESTED OUTPUT SEGMENTS
971	- 0		" UFINISHDOUBTEUL, USED IN BANKER
972	- 0		" ULOANRUN
973	- 0		" UCLAIMRUN
974	- 0		" UDOCRUN, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
975	- 0		" ULOANPLO
976	- 0		" UCLAIMPLO
977	- 0		" UDOCPLO, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
978	- 0		" GL0, INVARIANT TARGET ADDRESS
979	- 0		" GL1, TARGET LRP
980	- 0		" GL3, USED IN ARRAY DECLARATION
981	- 0		" GL4, USED IN ARRAY DECLARATION
982	- 0		" GL5, USED IN ARRAY DECLARATION
983	- 0		" GL6, USED IN ARRAY DECLARATION
984	- 0		" GL7, USED IN ARRAY DECLARATION
985	- 0		" GIR, GLOBAL IMAGINARY PART
986	- 0		
987	SUBCD(:RSE57)		" FLV
988	U, S = 0		" FRV
989	DO(FRV)		" FCV
990	JUMP(2)		" FLVM
991	GOTO(:RSE64)		" FRVM
992	S = MS[2], Z		" FCVM
993	- 0		" GL17, POSITION IN BOOLEAN WORD
994	- 0		" GL18, USED IN ARRAY DECLARATION
995	- 0		" GL19, USED IN ARRAY DECLARATION
996	- 0		" GL20, USED IN ARRAY DECLARATION
997	- 0		" GL21, USED IN ARRAY DECLARATION
998	- 0		" GL26, INVARIANT ADDRESS IN CURRENT PROGRAM SEGMENT
999	- 0		" CGL1
1000	-2 000 000		" GBILL
1001	- 0		" UNITS
1002	+ 1		" CSTECK
1003	- 0		" UTRANSTIME
1004	- 0		" CGL2

1005	- 0	" ULIST
1006	- 0	" UKIND
1007	- 0	" USPECIALRM
1008	'377 737 777'	
1009	'377 737 777'	
1010	'377 737 777'	
1011	'377 737 777'	
1012	'377 737 777'	
1013	'377 737 777'	
1014	'377 737 777'	
1015	'377 737 777'	
1016	'377 737 777'	
1017	'377 737 777'	
1018	'377 737 777'	
1019	'377 737 777'	
1020	'377 737 777'	
1021	'377 737 777'	
1022	'377 737 777'	
1023	'377 737 777'	
1024	'377 737 777'	
1025	'377 737 777'	
1026	'377 737 777'	
1027	'377 737 777'	
1028	'377 737 777'	
1029	'377 737 777'	
1030	'377 737 777'	
1031	'377 737 777'	
1032	'377 737 777'	
1033	'377 737 777'	
1034	'377 737 777'	
1035	'377 737 777'	
1036	'377 737 777'	
1037	'377 737 777'	
1038	'377 737 777'	
1039	'377 737 777'	
1040	'377 737 777'	
1041	'377 737 777'	
1042	'377 737 777'	
1043	'377 737 777'	
1044	'377 737 777'	
1045	'377 737 777'	
1046	'377 737 777'	
1047	'377 737 777'	
1048	'377 737 777'	
1049	- 0	" JMTCLAIMED
1050	- 0	
1051	- 0	
1052	- 0	
1053	- 0	
1054	- 0	
1055	- 0	" CGLSLOW
1056	- 0	" CMTUSED
1057	- 0	" JCURUNIT
1058	- 0	" JMTEINDR
1059	0	"CGLSTV(3)
1060	510	"END OF STRING
1061	0	
1062	UDISPRM3(3)	
1063	A = MD[0]	
1064	A = MD[0]	

1065	:USBRM3	
1066	USTACKRM4(28)	
1067	- 0	" SV NEXT STACK PAGE
1068	- 0	" NO CHAIN TO PREVIOUS PAGE
1069	- 0	" UKILLCOUNTER
1070	- 0	" UKILLVAR
1071	- 0	" UAMTELREQ
1072	- 0	" UAMVAR
1073	- 0	" UAMSEM
1074	- 0	
1075	- 0	
1076	- 0	" USCAMSEM
1077	- 0	
1078	- 0	
1079	- 1	" UHAMR, BLOCKED
1080	- 0	" WHITE
1081	:UTEXTRM(1)	" T, DEAF
1082	- 0	" A
1083	- 0	" S
1084	- 0	" F
1085	- 0	
1086	:UWRPM4	" B
1087	:UDISRRM4(2)	" D, ADDRESS BOTTOM DISPLAY
1088	ULOADM	" LOAD
1089	ULOADT	
1090	'776 500 000'	" WEIGHT, 2 + (= 10) FLOATING
1091	+ 1	
1092	:UDISRRM4(2)	" ADDRESS BOTTOM DISPLAY
1093	:USBRM4(4)	" SV LINK, :P(0) BOTTOM SV LIST
1094	0	" NO RETURN LRR
1095	USBRM4(116)	
1096	:UWRPM4	" WR
1097	A = MD(0)	" BLOCK HEIGHT ZERO
1098	- 0	" P[- 2] BOTTOM SV LIST, INDICATION LAST LIST
1099	4	" RM NUMBER
1100	- 0	" GL23, BOOLEAN READ FROM EMPTY SV FALSE
1101	- 0	" GL24, NUMBER OF P-SEGMENTS RM4
1102	- 0	" GL25, NUMBER OF BORROWED STACKPAGES
1103	- 0	" GL16, NUMBER OF GRANTED STACKPAGES
1104	- 0	" NSR, FIRST FREE PLACE IN NEW STACKPAGE
1105	- 0	" WARNINGPOINT P-INCREASE
1106	UINVM344	" UM34
1107	UINVM354	" UM35
1108	UINVM364	" UM36
1109	- 0	" UKILLSEM
1110	- 0	
1111	- 0	
1112	UINVWHO4	" UWHO
1113	CINVMNN	" URPROGID
1114	- 0	" URUNNUM
1115	- 0	" UBLOCKSTR
1116	:UTRSTRL4	" BASIC ADDRESS LIST OF OWN TAPEREADER STREAMS
1117	:ULPSTRL4	" BASIC ADDRESS LIST OF OWN PRINTER STREAMS
1118	:UTPSTRL4	" BASIC ADDRESS LIST OF OWN PUNCH STREAMS
1119	:URLSTRL4	" BASIC ADDRESS LIST OF OWN PLOTTER STREAMS
1120	- 0	" UREQUEST, NUMBER OF REQUESTED OUTPUT SEGMENTS
1121	- 0	" UFINISHDOUBTFUL, USED IN BANKER
1122	- 0	" ULOANRPN
1123	- 0	" UCLAIMRPN

1124	- 0	" UDOCRUN, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
1125	- 0	" ULOAMPLO
1126	- 0	" UCLAIMPLO
1127	- 0	" UDOCRLO, NUMBER OF DOCUMENTS UNDER CONSTRUCTION
1128	- 0	" GL0, INVARIANT TARGET ADDRESS
1129	- 0	" GL1, TARGET LRP
1130	- 0	" GL3, USED IN ARRAY DECLARATION
1131	- 0	" GL4, USED IN ARRAY DECLARATION
1132	- 0	" GL5, USED IN ARRAY DECLARATION
1133	- 0	" GL6, USED IN ARRAY DECLARATION
1134	- 0	" GL7, USED IN ARRAY DECLARATION
1135	- 0	" GIR, GLOBAL IMAGINARY PART
1136	- 0	
1137	SUBCD(:PSE57)	" FLV
1138	U, S = 0	" FRV
1139	DO(FRV)	" FCV
1140	JUMR(2)	" FLVM
1141	GOTO(:PSE64)	" FRVM
1142	S = MS[2], Z	" FCVM
1143	- 0	" GL17, POSITION IN BOOLEAN WORD
1144	- 0	" GL18, USED IN ARRAY DECLARATION
1145	- 0	" GL19, USED IN ARRAY DECLARATION
1146	- 0	" GL20, USED IN ARRAY DECLARATION
1147	- 0	" GL21, USED IN ARRAY DECLARATION
1148	- 0	" GL26, INVARIANT ADDRESS IN CURRENT PROGRAM SEGMENT
1149	- 0	" CGL1
1150	-2 000 000	" GBILL
1151	- 0	" UNITS
1152	+ 1	" CSTECK
1153	- 0	" UTRANSYTIME
1154	- 0	" CGL2
1155	- 0	" ULIST
1156	- 0	" UKIND
1157	- 0	" USPECIALRM
1158	'377 737 777'	
1159	'377 737 777'	
1160	'377 737 777'	
1161	'377 737 777'	
1162	'377 737 777'	
1163	'377 737 777'	
1164	'377 737 777'	
1165	'377 737 777'	
1166	'377 737 777'	
1167	'377 737 777'	
1168	'377 737 777'	
1169	'377 737 777'	
1170	'377 737 777'	
1171	'377 737 777'	
1172	'377 737 777'	
1173	'377 737 777'	
1174	'377 737 777'	
1175	'377 737 777'	
1176	'377 737 777'	
1177	'377 737 777'	
1178	'377 737 777'	
1179	'377 737 777'	
1180	'377 737 777'	
1181	'377 737 777'	
1182	'377 737 777'	
1183	'377 737 777'	

1184	'377 737 777'	
1185	'377 737 777'	
1186	'377 737 777'	
1187	'377 737 777'	
1188	'377 737 777'	
1189	'377 737 777'	
1190	'377 737 777'	
1191	'377 737 777'	
1192	'377 737 777'	
1193	'377 737 777'	
1194	'377 737 777'	
1195	'377 737 777'	
1196	'377 737 777'	
1197	'377 737 777'	
1198	'377 737 777'	
1199	- 0	" JMTCLAIMED
1200	- 0	
1201	- 0	
1202	- 0	
1203	- 0	
1204	- 0	
1205	- 0	" CGLSLOW
1206	- 0	" CMTUSED
1207	- 0	" JCURUNIT
1208	- 0	" JMTEINDR
1209	0	"CGLSTV(3)
1210	510	"END OF STRING
1211	0	
1212	UDISPRM4(3)	
1213	A = MD[0]	
1214	A = MD[0]	
1215	:USBRM4	
1216	USTACKRM5(28)	
1217	- 0	" SV NEXT STACK PAGE
1218	- 0	" NO CHAIN TO PREVIOUS PAGE
1219	- 0	" UKILLCOUNTER
1220	- 0	" UKILLVAR
1221	- 0	" UAMTELREQ
1222	- 0	" UAMVAR
1223	- 0	" UAMSEM
1224	- 0	
1225	- 0	
1226	- 0	" USCAMSEM
1227	- 0	
1228	- 0	
1229	- 1	" UHAMR, BLOCKED
1230	- 0	" WHITE
1231	:UTEXTRM[1]	" T, DEAF
1232	- 0	" A
1233	- 0	" S
1234	- 0	" F
1235	- 0	
1236	:UWRPM5	" B
1237	:UDISPRM5[2]	" D, ADDRESS BOTTOM DISPLAY
1238	ULOADH	" LOAD
1239	ULOADT	
1240	'776 500 000'	" WEIGHT, 2 + (- 10) FLOATING
1241	+ 1	
1242	:UDISPRM5[2]	" ADDRESS BOTTOM DISPLAY
1243	:USBRM5[4]	" SV LINK, :R[0] BOTTOM SV LIST

1244	0	" NO RETURN LRR
1245	USBRM5(116)	
1246	:UVRPM5	" WR
1247	A = MD(0)	" BLOCK HEIGHT ZERO
1248	- 0	" R[- 2] BOTTOM \$V LIST, INDICATION LAST LIST
1249	5	" RN NUMBER
1250	- 0	" GL23, BOOLEAN READ FROM EMPTY \$V FALSE
1251	- 0	" GL24, NUMBER OF P - SEGMENT RMS
1252	- 0	" GL25, NUMBER OF BORROWED STACKPAGES
1253	- 0	" GL16, NUMBER OF GRATED STACKPAGES
1254	- 0	" NSP, FIRST FREE PLACE IN NEW STACKPAGE
1255	- 0	" WARNING POINT P - INCREASE
1256	UINVM345	" UM34
1257	UINVM355	" UM35
1258	UINVM365	" UM36
1259	- 0	" UKILLSEM
1260	- 0	
1261	- 0	
1262	UINVMH05	" UWHO
1263	CINVMH	" UPROGID
1264	- 0	" URUNNUM
1265	- 0	" UBLOCKSTR
1266	:UIRSTR5	" BASIC ADDRESS LIST OF OWN TAPERADRESTREAMS
1267	:UIPRSTR5	" BASIC ADDRESS LIST OF OWN PRINTER STREAMS
1268	:UIPSTR5	" BASIC ADDRESS LIST OF OWN PUNCH STREAMS
1269	:UIPLSTR5	" BASIC ADDRESS LIST OF OWN PLOTTER STREAMS
1270	- 0	" UREQUEST
1271	- 0	" UFINISHDOUBTEUL
1272	- 0	" ULOANRUM
1273	- 0	" UCLAIMRUM
1274	- 0	" UDOCRUM
1275	- 0	" ULOANRLO
1276	- 0	" UCLAIMRLO
1277	- 0	" UDOCRLO
1278	- 0	" GL0
1279	- 0	" GL1
1280	- 0	" GL3
1281	- 0	" GL4
1282	- 0	" GL5
1283	- 0	" GL6
1284	- 0	" GL7
1285	- 0	" GIR
1286	- 0	
1287	SUBCD(:PSE57)	" FLV
1288	U, S = 0	" FRV
1289	DO(FRV)	" FGV
1290	JUMP(2)	" FLVM
1291	GOTO(:PSE64)	" FRVM
1292	S = MS(2), Z	" FGVN
1293	- 0	" GL17
1294	- 0	" GL18
1295	- 0	" GL19
1296	- 0	" GL20
1297	- 0	" GL21
1298	- 0	" GL26
1299	- 0	" CGL1
1300	-2 000 000	" GBILL
1301	- 0	" UNITS

```

1302      + 1          " CSTEER
1303      - 0          " UTRANSTIME
1304      - 0          " CGL2
1305      - 0          " WL1ST
1306      - 0          " WKIND
1307      + 100        " USPECIALRM
1308      '377 737 777'
1309      '377 737 777'
1310      '377 737 777'
1311      '377 737 777'
1312      '377 737 777'
1313      '377 737 777'
1314      '377 737 777'
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1340      '377 737 777'
1341      '377 737 777'
1342      '377 737 777'
1343      '377 737 777'
1344      '377 737 777'
1345      '377 737 777'
1346      '377 737 777'
1347      '377 737 777'
1348      '377 737 777'
1349      - 0          " JMTCLAIMED
1350      - 0
1351      - 0
1352      - 0
1353      - 0
1354      - 0
1355      - 0          " CGLSLOW
1356      - 0          " CMTUSED
1357      - 0          " JCURUNIT
1358      - 0          " JMTINDR
1359      0            "CGLSTV(3)
1360      510
1361      0            "END OF STRING

```

this constant is filled in for every variable ~~not initialized by~~ upon declaration it serves both as a large integer, and as a large real, when two of them are taken consecutively. This guarantees reproducibility.

```

1362 UDISRRM5(3)
1363      A = MD(0)
1364      A = MD(0)
1365      :USBRM5

1366 UGTR(77) complex to the power
1367      F + 0, Z
1368      Y, M(B - 5) = F
1369      Y, F = 1
1370      Y, B = 2
1371      Y, GOTOR(MC(1))
1372      A = F
1373      M(B + 8) = A
1374      RUA(15), Z
1375      N, A = 247
1376      N, GOTO(:UDYNERR)
1377      MC = F
1378      F = M(B - 7), Z
1379      F = MC( - 2)
1380      Y, GOTO(:UTTR(3))
1381      S = G, P
1382      A = F
1383      N, S = - S
1384      N, A = - A
1385      F = 0
1386      MC = F
1387      F = 1, P
1388      M(B) = F
1389      Y, JUMP(13)
1390      F = M(B - 5), Z
1391      N, F * M(B - 7)
1392      N, F + F
1393      M(B + 2) = F
1394      F = M(B - 7), Z
1395      N, F * M(B - 7)
1396      M(B + 4) = F
1397      F = M(B - 5), Z
1398      N, F * M(B - 5)
1399      F = M(B + 4)
1400      M(B - 5) = F
1401      F = M(B + 2)
1402      M(B - 7) = F
1403      U, S '*' 1, Z
1404      Y, JUMP(14)
1405      F = M(B), Z
1406      N, F * M(B - 7)
1407      M(B + 2) = F
1408      F = M(B - 2), Z
1409      N, F * M(B - 7)
1410      M(B + 4) = F
1411      N, F = M(B - 2)
1412      N, F * M(B - 5)
1413      F + M(B + 2)
1414      M(B - 2) = F
1415      F = M(B - 5), Z
1416      N, F * M(B)
1417      F = M(B + 4)
1418      M(B) = F
1419      RUAS(1), Z
1420      Y, S = S, Z

```

```

"EXPONENT = 0?
"ZO JA IM(RESULTAAT) = 0
"EN RE(RESULTAAT) = 1

```

```

"NEEM EXPONENT
"ONTHOUD HET TEKEN
"IS EXPONENT INTEGER?

```

```

"BERG EXPONENT OP
"IM(GRONDTAL) = 0?

```

```

"ZO JA, DAN NAAR REELE GEVAL
"EXPONENT POSITIEF

```

```

"ZO NEEN, NEEM INVERSE

```

```

"BEGIN LOOP MET RE(LOPEND PRODUKT) = 1
"EN IM(LOPEND PRODUCT) = 0

```

```

"VORM(A + BI) + (2 + 1)

```

```

"WERK ZO NODIG HET LOPEND
"PRODUKT BIJ

```

```

"EN BERG DIT OP

```

```

"ALS EXPONENT NOG NIET GEHEEL AFGEWERKT

```



```

1421 N, JUMP( - 32) "IS, BEGIN DAN OPNIEUW
1422 B - 4
1423 A = M[B + 10], R
1424 Y, JUMP(14)
1425 F = M[B + 2], Z "VORM ZO NODIG(U + IV) + (= 1)
1426 N, F * M[B - 2]
1427 M[B + 6] = F
1428 F = M[B + 4], Z
1429 N, F * M[B + 4]
1430 F + M[B + 6]
1431 M[B + 6] = F
1432 F = M[B + 2], Z
1433 N, F/M[B + 6]
1434 F = -F
1435 M[B + 2] = F
1436 F = M[B + 4], Z
1437 N, F/M[B + 6]
1438 M[B + 4] = F
1439 DO(MD[ - 1])
1440 F = M[B + 2] "ZET RESULTAAT OP GOEDE PLAATS
1441 M[B - 3] = F
1442 F = M[B + 4]
1443 GOTOR(MC[1])

```

```

1444 WEIDI(14) integer division
1445 F + 0, Z "DELER 0?
1446 Y, A = 244
1447 Y, GOTO(:WDYNERR)
1448 S = F
1449 RUS(15), Z "DELER GEHEEL?
1450 N, A = 245
1451 N, GOTO(:UDYNERR)
1452 M[B] = F
1453 G = M[B - 2]
1454 F/MC, R
1455 N, F = -F "NEEM ABSOLUTE WAARDE
1456 SUBC(:WENTIER) "VAN HET QUOTIENT
1457 N, F = -F
1458 GOTOR(M[B + 1])

```

```

1459 UDIDI(18)
1460 F + 0, Z integer division "DELER 0?
1461 Y, A = 244
1462 Y, GOTO(:UDYNERR) one of these two is for long integers
1463 S = F
1464 RUS(15), Z "DELER GEHEEL?
1465 N, A = 245
1466 N, GOTO(:UDYNERR)
1467 M[B] = F
1468 F = M[B - 3]
1469 S = F
1470 RUS(15), Z "DEELTAL GEHEEL?
1471 N, A = 246
1472 N, GOTO(:UDYNERR)
1473 F/MC, R
1474 N, F = -F "NEEM ABSOLUTE WAARDE
1475 SUBC(:WENTIER)
1476 N, F = -F
1477 GOTOR(MC[1])
1478 UPOL IN FE(1)

```

*this page is duplicated as first
page of C1063.3*

```

1479          F = E
1480 UROL IN  F(8)
1481          M(B) = F
1482          U, JUMP(0)
1483          F = MS
1484          F = M(B)
1485          F + MS( - 2)
1486          U, GOTOR(MC( - 1))
1487          S = 2
1488          JUMP( - 5)
1489 UENTIER(1)
1490          F + 0, P
1491 UENTIER(12)
1492          U, S = F, E
1493          Y, GOTOR(MC( - 1))
1494          F = MT(7), E
1495          Y, JUMP(4)
1496          U, S = F, E
1497          Y, GOTOR(MC( - 1))
1498          F + DPT(11)
1499          F - DPT(11), Z
1500          Y, F = 0
1501          GOTOR(MC( - 1))
1502          - 65535
1503          + 1

1504 UCOS(2)
1505          A = 1
1506          JUMP(1)

```

```

"MAAK OF SCHOON
"NEEM LAATSTE COEFFICIENT
"X ARGUMENT
"+ COEFFICIENT
"IF OF THEN ERUIT

```

```

"ARGUMENTAL GEHEEL
"+ 0 < E < .5?
"DAN ENTIER = + 0
"E = 0.5 INTEGER?

```

```

".5

```

```

"COS(X) = SIN(X + PI/2)

```