

FUNKCIJE STROJNE OPREME (HW)

- 1. PAKA 2000/3000 → UNISCOPE 200
- 2. ŠTAMPAČ → COP
- 3. DISK (DATOTEKA) → TCS
- 4. SVM-xxx — MEĐUSKLOP (IF) CCITT V.24/EIA RS-232C

PROGRAMSKA OPREMA (SW) OMOGUĆAVA OPONAŠANJE STROJNE
OPREME "UNIVAC" NA OPREMI "DELTA":

1. DMT - TRANSFORMIRA PORUKE ZA UNISCOPE 200 U ODGOVARAJUĆE
PORUKE ZA PAKU I PRIKLJUČENI ŠTAMPAČ
 - TRANSFORMIRA PORUKE ZA TCS U ZAPISE TE IH SPREMA U
DATOTEKU NA DISKU
 - INTERPRETIRA KOMANDE S TASTATURE TERMINALA PAKA

2. UT - SERVISIRA STROJNE PREKIDE SA SINHRONOG MEĐUSKLOPA
 - OBAVLJA LINIJSKE KONTROLNE FUNKCIJE *- delta link control*
 - PRIHVAĆA PORUKE OD DMT-A I ODAŠILJE IH NA KOMUNIKA-
CIONU LINIJU NADOPUNJENE KONTROLNIM SEKVENCIJAMA
 - PRIHVAĆA PODATKE S LINIJE I PREDAJE IH ODGOVARAJUĆOJ
KOPIJI DMT-A BEZ KONTROLNIH SEKVENCIJA
 - TRAJNO VODI STATISTIKU LINIJE I ODBIJENIH ZAHTJEVA NA
SISTEMSKE RESURSE TE IH NA ZAHTJEV PREDAJE NADZORNOM
PROGRAMU

3. DMN - ZAHTIJEVA OD UT-A STATISTIČKE PODATKE I PRIKAZUJE
IH NA EKRANU NADZORNOG TERMINALA
 - PRIKUPLJA SVE PODATKE S LINIJE (U OBA SMJERA) I SPREMA
IH U DATOTEKU NA DISKU

ZAHTJEVANA OKOLINA

1. PROGRAMSKA OPREMA (SW)

- OPERACIJSKI SISTEM DELTA-M V1.2 ILI V2.X

2. STROJNA OPREMA (HW)

- PROCESOR DELTA 340-800

- SINHRONI MEĐUSKLOP (IF) SVM-001/002

DUP11 / DU11

- MEMORIJA:

DMT 4KW x N (N=1-8)

DMR 13KW

UT 3KW

DMN 11KW

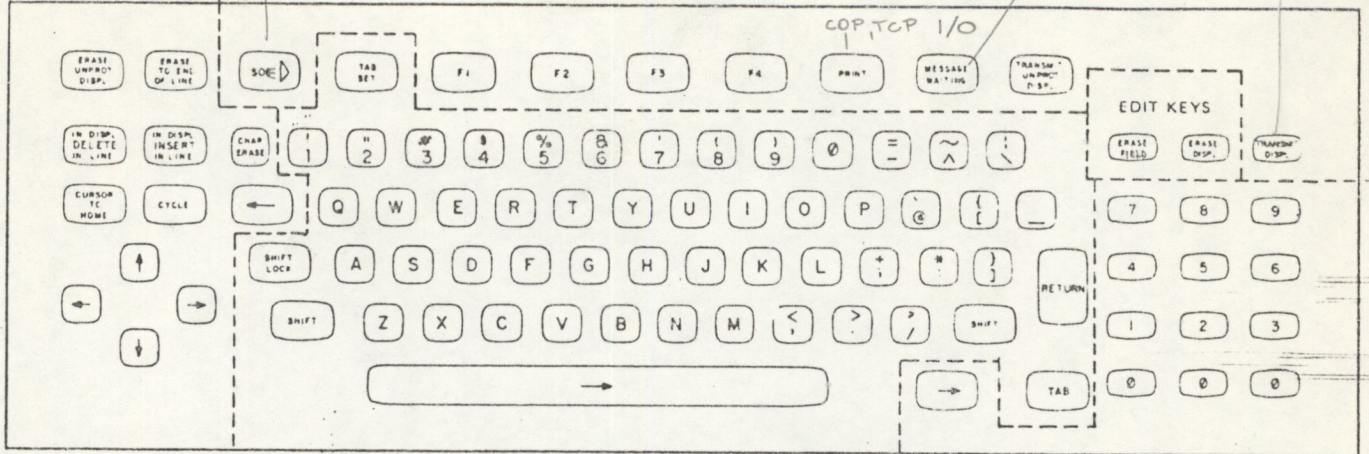
MIN 20KW

MAX 50KW

EDITING AND CURSOR CONTROL SECTION

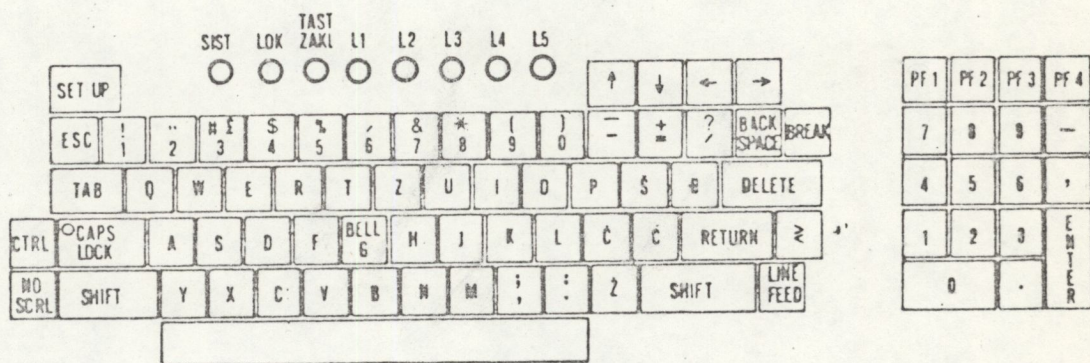
MESSAGE AND SPECIAL FUNCTION SECTION

transmit use



ALPHANUMERIC/SYMBOLIC SECTION

NUMERIC SECTION



TAB - generic TAB, 12 mod 30
 SPACE - hot ERASE CHAR
 LED 3 - Message waiting
 LED 4 - Wait

PF1 F1	PF2 F2	PF3 F3	PF4 F4
7 Erase unprot.	8 Erase to eol	9 Erase field	- Erase display
4 Delete in line	5 Insert in line	6 Cursor home	Unlock keyboard
1 Message waiting	2 Repaint screen	3 Help	ENTER Transmit unprot display
0 SOE		TAB	

L3 Processor message waiting ('Message waiting')
 L4 Keyboard locked ('Wait')

esc E	Delete line	esc F	Insert line
esc G	Delete in display	esc H	Insert in display
esc I	Blink on	esc J	Blink off
esc K	Hard copy print	esc L	Output to auxiliary device
esc N	Input from auxiliary	esc X	Transmit display

TAB, Set tabulator SPACE Erase character

POOLING 1 selz

remote ID - 20 prvo term
 site ID - 1-8 term
 device ID - dodatni device (COP, TCS)

SYN SOH RID SID DID

STATUS POLL WITHOUT ACKNOWLEDGE*
 SOH R/G S/G D/G ENQ ETX BCC

- di je haj se mene

STATUS POLL WITH ACKNOWLEDGE*
 SOH R/G S/G D/G DLE 1 ENQ ETX BCC

TRAFFIC POLL WITHOUT ACKNOWLEDGE*
 SOH R/G S/G D/G ETX BCC

- dej mi date

TRAFFIC POLL WITH ACKNOWLEDGE*
 SOH R/G S/G D/G DLE 1 ETX BCC

TEXT
 SOH RID SID DID STX TEXT ETX BCC

PROCESSOR MESSAGE WAITING
 SOH RID SID DID BEL STX ETX BCC

RETRANSMISSION REQUEST
 SOH RID SID DID DLE NAK ETX BCC

BREAK - RESUME *EMBNSG counter*
 ...XXX DLE [SOH COMPLETE FORMAT BCC DLE] XXX₁

URGENT PROCESSOR MESSAGE (OVERRIDE TERMINAL ACTIVITY)
 SOH RID SID DID NUL NUL NUL STX NUL NUL NUL HT NUL NUL NUL STX TEXT ETX BCC

20 ms**

10 ms**

20 ms**

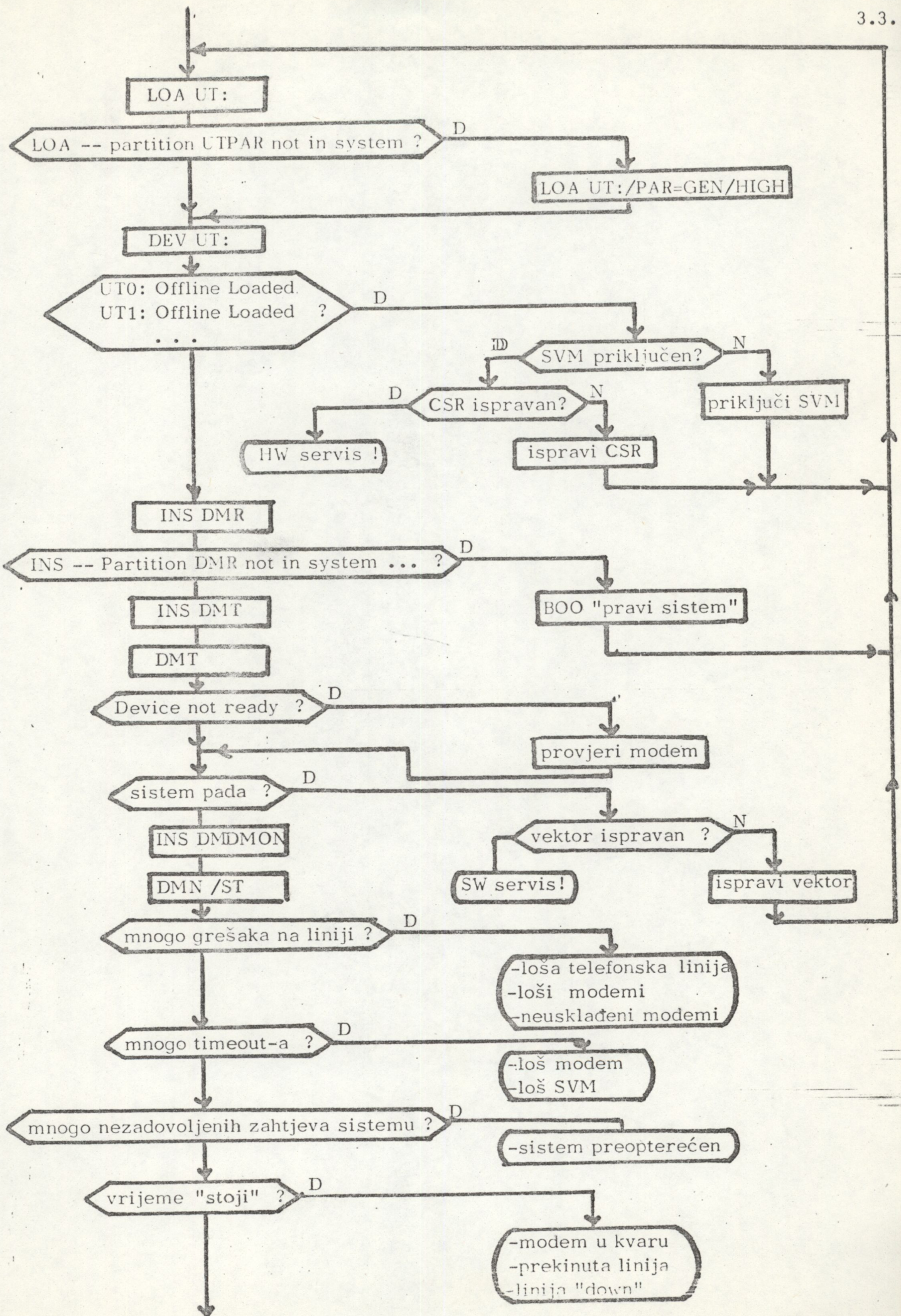
(Terminates auxiliary interface activity)

(Suppresses transmit)

*In these message formats, R/G indicates RID or GID, S/G indicates SID or GID, and D/G indicates DID or GID.

**These times are for the UNISCOPE 100 terminal; they are doubled for the UNISCOPE 200 terminal.

PROCESSOR → TERMINAL



NO TRAFFIC WITHOUT ACKNOWLEDGE
EOT EOT or EOT EOT ETX BCC

NO TRAFFIC WITH ACKNOWLEDGE*
SOH RID SID DID DLE 1 ETX BCC

REPLY REQUEST - *relative ponavito mo* RETRANSITION REQUEST
SOH RID SID DID DLE ENQ ETX BCC

WABT (BUSY)
SOH RID SID DID DLE ? ETX BCC

REQUEST PROCESSOR MESSAGE (OR SPECIAL FUNCTION MESSAGE) WITHOUT ACKNOWLEDGE
SOH RID SID DID BEL or 7 or G or W or g ETX BCC

Special Function Messages

REQUEST PROCESSOR MESSAGE (OR SPECIAL FUNCTION MESSAGE) WITH ACKNOWLEDGE* WAIT
SOH RID SID DID DLE 1 BEL or 7 or G or W or g ETX BCC

Special Function Messages

THRU WITHOUT ACKNOWLEDGE - *READY (no busy)*
SOH RID SID DID DLE ; ETX BCC

THRU WITH ACKNOWLEDGE
SOH RID SID DID DLE 1 DLE ; ETX BCC

RESPONSES TO STATUS POLL ONLY

TRAFFIC WITHOUT ACKNOWLEDGE
SOH RID SID DID DLE 0 ETX BCC

TRAFFIC WITH ACKNOWLEDGE*
SOH RID SID DID DLE 1 DLE 0 ETX BCC

RESPONSES TO TRAFFIC POLL ONLY

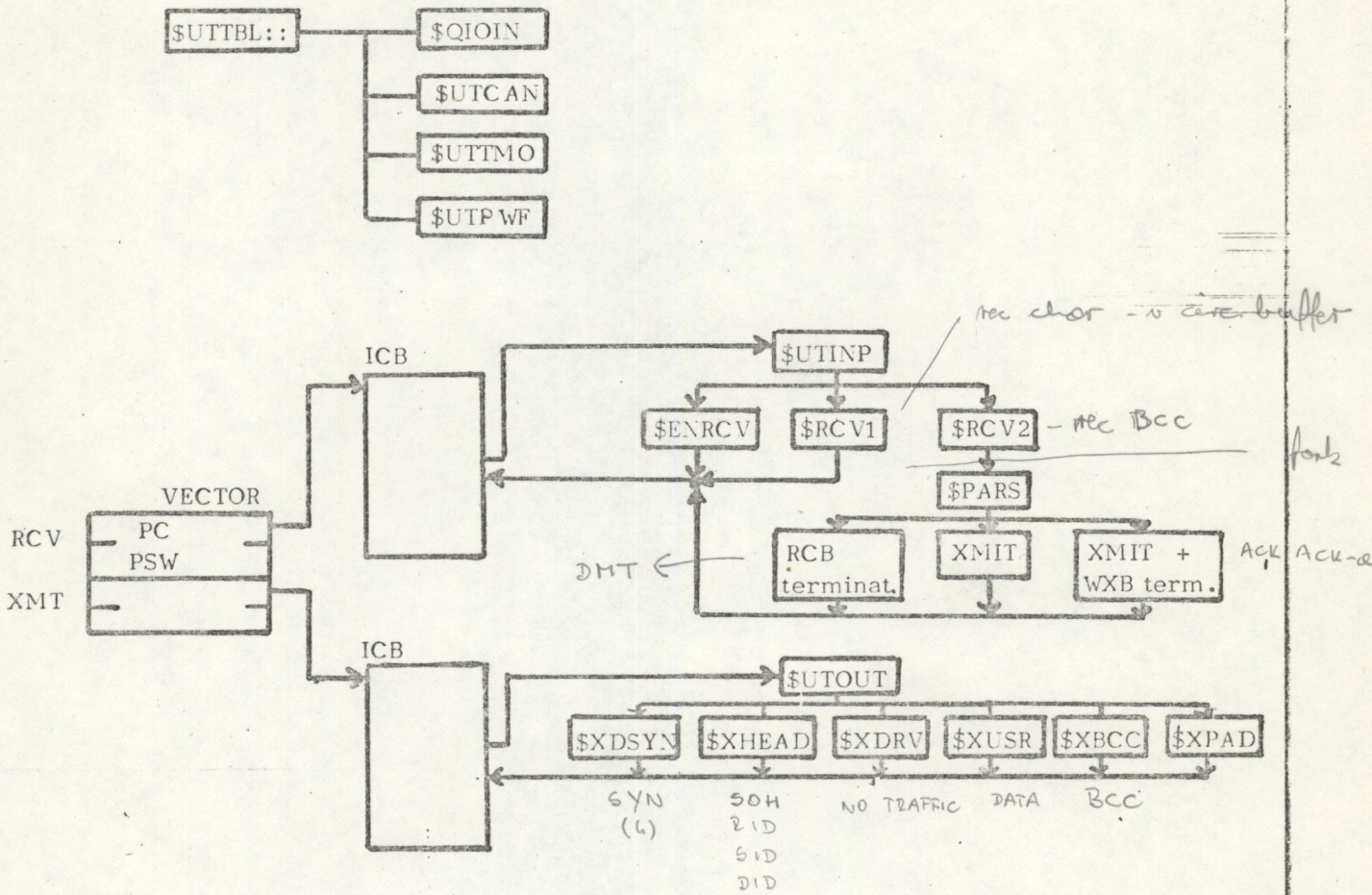
TEXT WITHOUT ACKNOWLEDGE
SOH RID SID DID STX TEXT ETX BCC

TEXT WITH ACKNOWLEDGE*
SOH RID SID DID DLE 1 STX TEXT ETX BCC

*WABT (DLE ?) may be sent instead of an acknowledgment (DLE 1) by a terminal that has received text correctly but cannot accept more text immediately. (See 3.3.3.2.)

2186

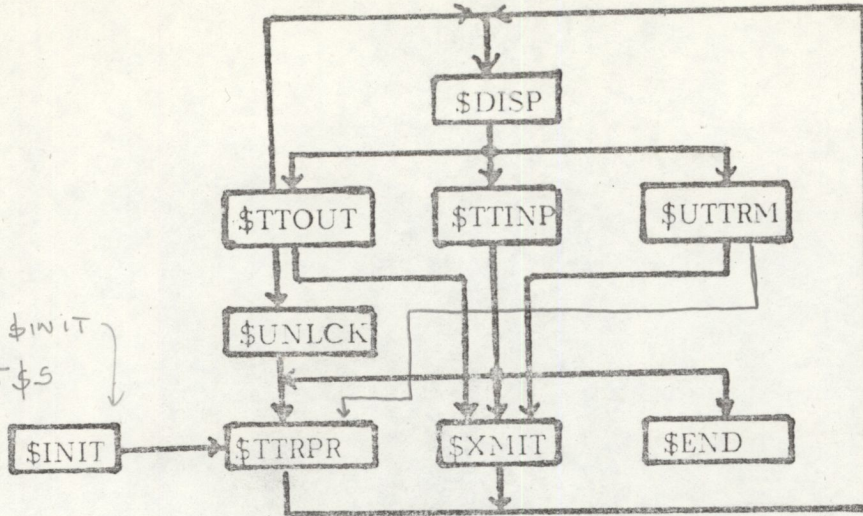
TERMINAL → PROCESSOR



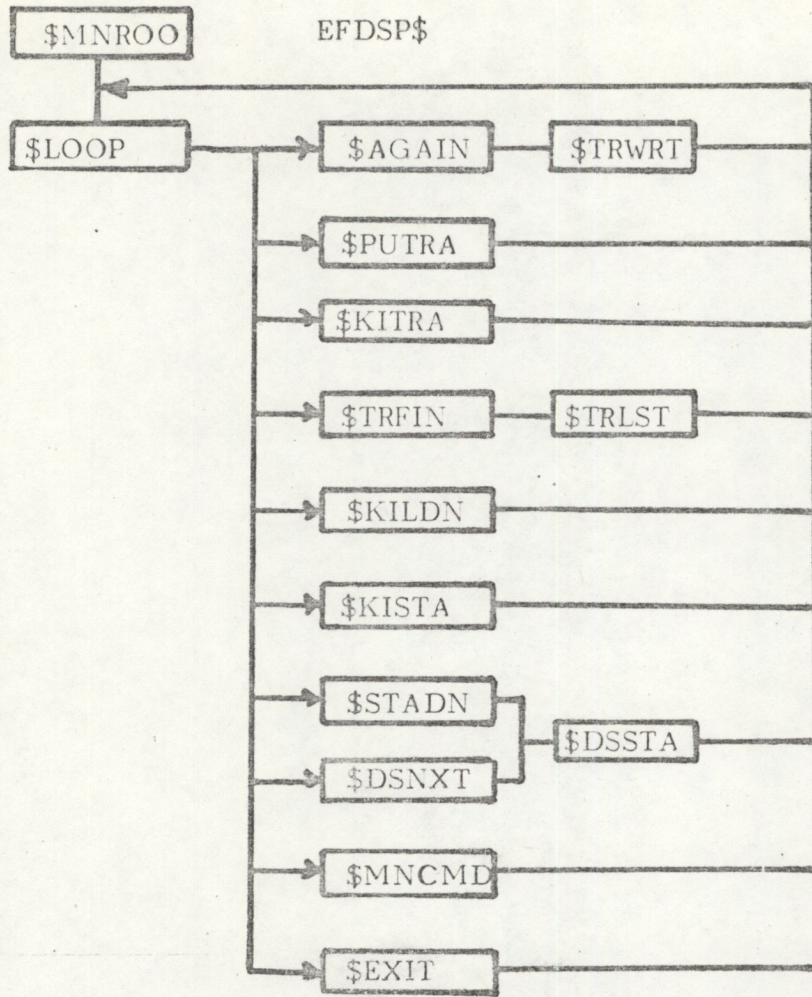
\$RKAMO
\$XKAMO

- where routine write can address next module

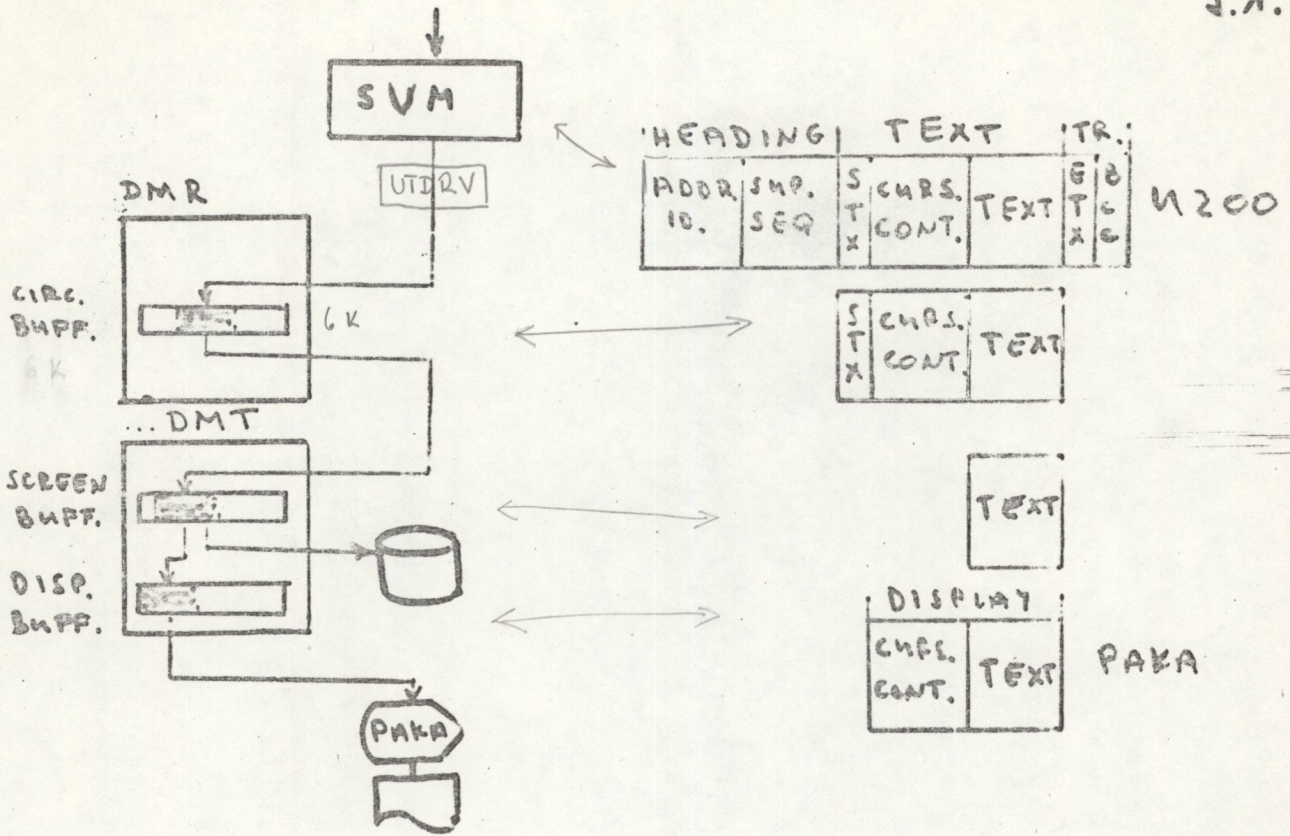
DMT
\$DMR00:: CALL \$INIT
EXIT \$S

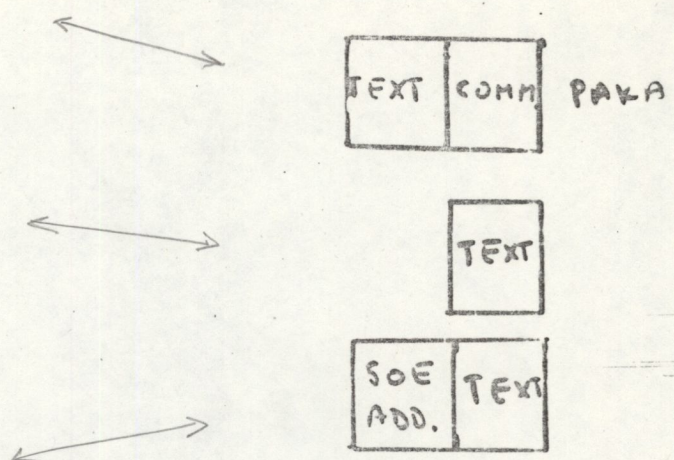
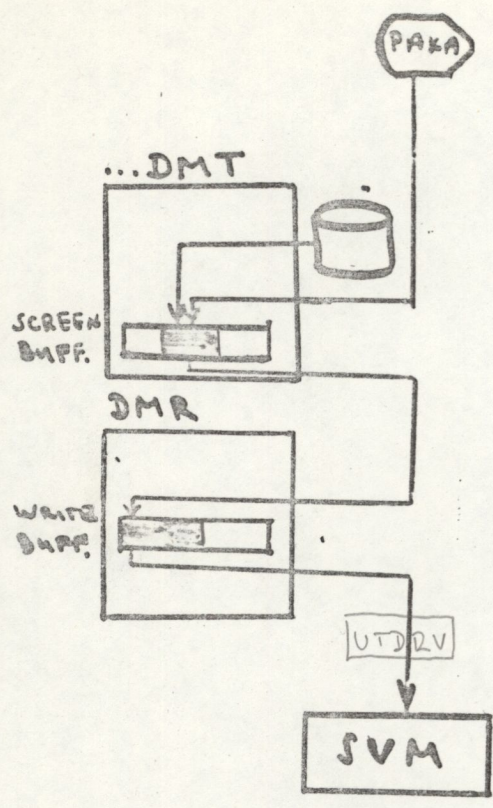


DMN



S.A.





HEADING			TEXT		TR	
ADDR.	SUP.	S	SOE	TEXT	E	b
ID.	SEQ	T	ADDR.		T	c
		X			X	C

W200

DISTRIBUTION DIRECTORY

=====

Directory DR0:[73,1]

18-NOV-85 12:04

DMDGEN.CMD;7

50.

31-OCT-85 12:40

Total of 50./50. blocks in 1. file

Directory DR0:[73,10]

18-NOV-85 12:04

DMDID.OBJ;2	4.		30-OCT-85 13:56
DMDLIB.OLB;2	103.	C	30-OCT-85 13:56
UTCAN.OBJ;4	1.		30-OCT-85 13:56
UTDAT.OBJ;3	1.		30-OCT-85 13:55
UTDRD.OBJ;3	4.		30-OCT-85 13:55
UTINTP.OBJ;5	7.		30-OCT-85 13:56
UTINTU.OBJ;4	7.		30-OCT-85 13:56
UTPRS.OBJ;3	12.		30-OCT-85 13:55
UTPWF.OBJ;4	2.		30-OCT-85 13:55
UTOIOP.OBJ;3	6.		30-OCT-85 13:56
UTOIOU.OBJ;3	6.		30-OCT-85 13:55
UTOUE.OBJ;3	1.		30-OCT-85 13:55
UTTMO.OBJ;5	1.		30-OCT-85 13:56
UTTRC.OBJ;3	1.		30-OCT-85 13:56

Total of 156./156. blocks in 14. files

Grand total of 206./206. blocks in 15. files in 2. directories

GENERATION PRODUCTS

=====

[1,2]JMDSTART.CMD
[1,2]JMDSTOP.CMD

[1,24]JMDBLD1.CMD
[1,24]JMDBLD2.CMD
[1,24]JMDBLD3.CMD
[1,24]JDMNBLD.CMD
[1,24]JUTDRVBLD.CMD

[1,34]JUTDRV.MAP
[1,34]JDMR.MAP
[1,34]JDMT.MAP
[1,34]JMDMON.MAP

[1,54]JUTDRV.TSK
[1,54]JUTDRV.STB
[1,54]JDMR.TSK
[1,54]JDMR.STB
[1,54]JDMT.TSK
[1,54]JMDMON.TSK

[73,10]JUTGEN.OBJ
[73,10]JMDGEN.OBJ

DMDGEN. MAC

63

LAKKO POVEZAS

NE ZMANISAT

MAXLN\$:: WORD 3500

NAJDULJA OČEKIVANA PORUKA

UNLOK\$:: WORD 0

INDIKATOR UNLOCK-A TASTATURE:

0 ... NA POTVRDU PRIJEMA (ACK)

1 ... NA PRVU PRIMLJENU PORUKU

LOWER.==1

PODRŠKA MALIH ZNAKOVA:

1 ... MALA SLOVA PODRŽANA

0 ... MALA SLOVA SE PRETVARAJU U VELIKA

IPCLR.==0

BRISANJE EKRANA PRIJE ČITANJA S 'TCS':

0 ... BRISANJE CIJELOG EKRANA

1 ... BRISANJE NEPROTEKTIRANOG DIJELA EKRANA

AUTXM.==1

AUTOMATSKO ODAŠILJANJE ZAPISA IZ 'TCS':

1 ... ZAPIS SE ŠALJE AUTOMATSKI

0 ... ZAPIS TREBA POSLATI RUČNO ILI KOMANDOM
IZ APLIKACIJE

TERMS\$::

TABELA KARAKTERISTIKA TERMINALA:

.BYTE 7,1,1. BROJ I TIP TERMINALA, REDNI BROJ STANICE

.ASCII /IQsyz(:S10121/

RID, SID, 5*DID:

- ŠTAMPAČ

- PISANJE NA TCS 1

- ČITANJE SA TCS 1

- PISANJE NA TCS 2

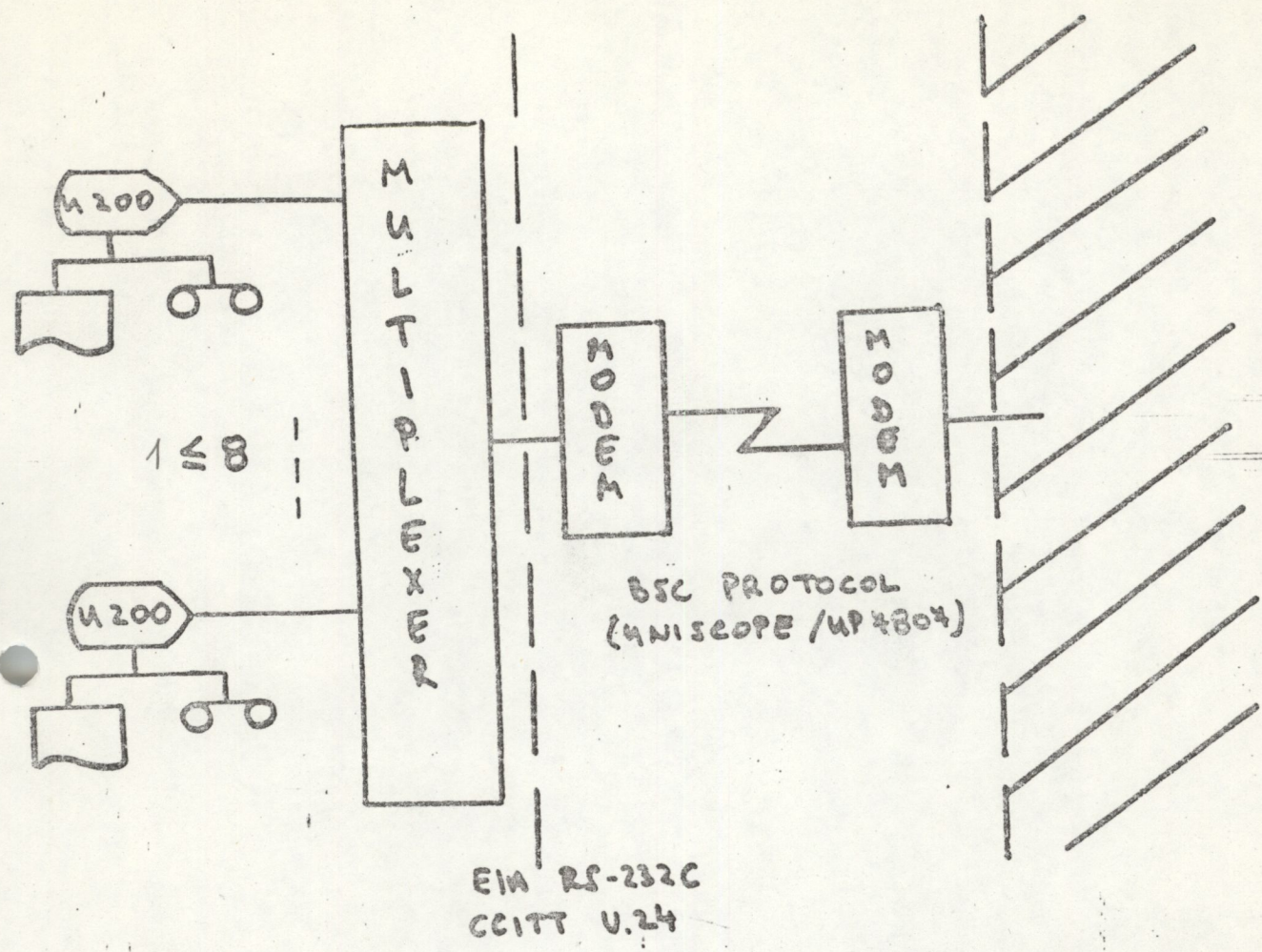
- ČITANJE SA TCS 2

ADRESA (6 ZNAKOVA)

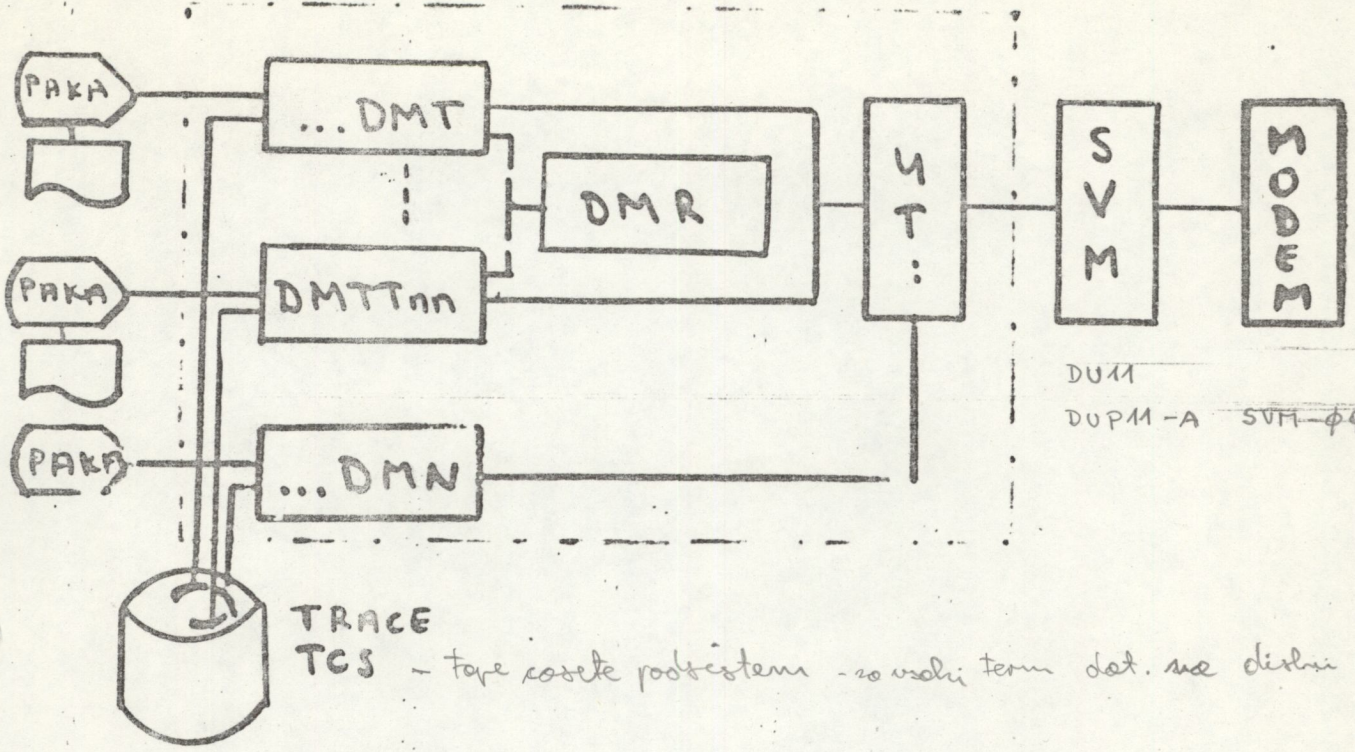
CSBZA.==1

φ

1



DMD-M



TRACE
TCS - tape cassette podsystem - so vsaki term det. se deluje

UT - fizicni layer - nadzor linije
- data link layer - BSC - data link control

DMT - emulator - data structure, CALL DMRINIT, EXIT

DMR - skupna koda za vse DMT - vse koda

DMD - demand monitor - nadzorni terminal
- trace file