

12 1
11 1
10 1
9 1
8 1
7 1
6 1
5 1
4 1
3 1
2 1
1 1


LIST	STRAN	IZDAJA	LIST	STRAN	IZDAJA	LIST	STRAN	IZDAJA
LIST	STRANA	IZDANJE	LIST	STRANA	IZDANJE	LIST	STRANA	IZDANJE
SHEET	PAGE	ISSUE	SHEET	PAGE	ISSUE	SHEET	PAGE	ISSUE

57

DELOVNA KOPIJA

TESTING PROCEDURE

Prejeto tretjim osebam in uporaba v enciklopediji ne sme biti dovoljena.

X	Primek in ime	Podpis	Gredivo		Odstopi metal. mer	Toplotna obdelava	Površ. zaščita	Pripadnost
	Konstr. <i>Čalar D.</i>	<i>[Signature]</i>	Izdaja	1				TRIGLAM
	Projekt. <i>Čalar D.</i>	<i>[Signature]</i>	Znak					 IskraDelta proizvodnja računalniških sistemov in inženiring, p.o.
	Pregled. <i>Čalar D.</i>	<i>[Signature]</i>	Št. obv.	30-044				
	Števil. <i>J. Bojanič</i>	<i>[Signature]</i>	Datum	15.2.89				
	Stand. <i>B. Maložič</i>	<i>[Signature]</i>	Podpis					
Naziv			1					Identifikacijska številka dok.
PVT CPU-J11			1					84772044
Namembnost kopije			Merilo	Sekcija	Namesto identifikacijske številke red.			
PREDPIS PREIZ/EN					19351044			

VME CPU-J11 TESTING PROCEDURE

For testing procedure it is necessary to instal testing eproms TSTL (84 767 044) on IC30 and TSTH (84 769 044) on IC29.

The testing procedure consists of four testing routines and a down line loader program. Routines are executed sequentially in loop. Description of test routines follows:

1. ROM CHECKSUM

The ROM checksum routine calculates word checksum of TSTROM data. TSTROM data are on I/O page in physical address space from 17773000 to 17773777. This routine prompts with a ROM message. If there is a checksum error, then an error message ERR occurs and the testing procedure is started again from the beginning. If there is no error, then testing proceeds with the console output routine.

2. CONSOLE OUTPUT

The console output routine outputs a string of ASCII characters on console port. It prompts with CON message. The output string is 1234560123456789. This routine does not use the interrupt mechanism. Testing proceeds with the console input routine.

3. CONSOLE INPUT (ECHO)

The console input routine asks for input string of ASCII characters. It prompts with CIN message. Then it outputs the ENQ ASCII character and waits for input string. Input string must be equal to 12345678. If not, then an error message ERR occurs and testing procedure is started again from the beginning. If there is no input response, then time out message TOT occurs and testing proceeds with memory routine as if there were no error.


4. MEMORY

The memory routine sequentially writes random data into local memory from physical address 0 to 157777 (56kB). Then it compares to valid data. It prompts with RAM message. If there is a data or parity error, then error message ERR occurs and testing procedure is started again from the beginning. Complete test lasts approximately 12 minutes. Then if there is no error, the testing proceeds with loader program.

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

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DELOVNA KOPIJA

Izdaja	1	List	Stran	J	K	Identifikacijska številka dok.
Št. obvestila	30-044	2				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.		Arhiv		Namesto identifikacijske številke izd.		
				19351044		

5. DOWN LINE LOADER

The down line loader program is not used for testing but for loading larger tests into memory.

The loader program prompts with message LDR and ready command (ASCII ^A). Then it waits to start the load command (ASCII ^C).

When the start load command is received, the loader answers with LDR and ready command and waits for input record.

If there is no response, then a time out message TOT occurs and the testing procedure is started again from the beginning. If there is a record checksum error, then negative acknowledge error message NAK with retransmit command (ASCII ^D) occurs and the loader waits for retransmission.

The load and start address must be in range from 0 to 157777, else error message ERR occurs and the testing procedure is started again from the beginning.

The record must be organized as follows:

LLAAAATTDD...DDCC

LL record length in bytes
 AAAA load or start address
 TT record type
 DD data bytes
 CC record checksum mod 256

record type 00 is data record
 record type 01 is command record (start command)

All input data are in HEX ASCII format. All non-HEX input data (except command characters) are ignored.

NOTE: If trap 4 (I/O bus time out, non-existent memory....) occurs any time during testing procedure, then error message ERR appears and the testing procedure is started again from the beginning.

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

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DELOVNA KOPIJA

Izdaja	1					List	Stran	J	K	Identifikacijska številka
Št. obvestila	30-044					3				84772044
IskraDelta proizvodnja računalniških sistemov in inženiring, p.o.						Arhiv	Namesto identifikacijske številke			
							1	9	3	5


```


1          .ENABL AMR
2          .ENABL IC
3          ;*****
4          ;
5          ;*          VME CPU J11 Module Test V1.0
6          ;*
7          ;*          ROM Checksum
8          ;*          Console Output
9          ;*          Console Input (Echo)
10         ;*          RAM (64kB-8kB)
11         ;*          Load Diagnostic
12         ;*
13         ;*****
14
15         000000'          X=.
16         173000'          .=X+173000
17
18         000004          T4 = 4          ; non-existent memory trap
19         000114          T114 = 114      ; parity error trap
20
21
22 173000 000005          START: RESET
23
24 173002 012706 173242'          MOV #ERR,SP          ; initialize stack
25
26 173006 010637 000004          MOV SP,#T4          ; initialize non-
27 173012 012737 000340 000006          MOV #340,#T4+2      ; existent memory trap
28
29 173020 010637 000114          MOV SP,#T114         ; initialize
30 173024 012737 000340 000116          MOV #340,#T114+2    ; parity error trap
31

```

Prenos tretjim osebam in uporaba v nedogovorjene namene ništa dovoljena.

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DELOVNA KOPIJA

Izdaja	4				List	Stran	J	K	Identifikacijska številka dok
Št. obvestila	30-044				4				84772044
 Iskra Delta proizvajalca računalniških sistemov in inženiring, p.o.					Arhiv		Namesto identifikacijske številke (izd.)		
							1	9	3

```


33 ;*****
34 ;"
35 ;"      ROM Checksum
36 ;"
37 ;*****
38 ;
39 ; R0 message pointer      R4 unmodified
40 ; R1 ROM word length counter  R5 return address
41 ; R2 ROM address pointer    SP unmodified
42 ; R3 checksum register
43
44      173000      ROMADD =      173000      ; ROM start address
45      001000      ROMLEN =      1000      ; ROM length (bytes)
46
47 173032 012700 173626'      MOV      #ROMMSG,R0      ; set output message pointer
48 173036 012705 173044'      MOV      #ROM,R5      ; set return address
49 173042 000412      BR      SLU      ; output message
50
51 173044 012702 173000      ROM:    MOV      #ROMADD,R2      ; set start ROM address
52 173050 012701 000400      MOV      #ROMLEN/2,R1      ; set ROM length in words
53
54 173054 005003      CLR      R3      ; set initial checksum word
55 173056 062203      10$:   ADD      (R2)+,R3      ; add data word to checksum
56 173060 077102      SOB      R1,10$      ; until end of ROM
57 173062 001067      BNE      ERR      ; if checksum not equal zero
58 ; then ROM checksum error
59
60 173064 012705 173110'      MOV      #ECHO,R5      ; set return address
61

```

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

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BELOVNA KOPIJA

Izdaja	1				List	Stran	J	K	Identifikacijska številka del.
Št. obvestila	30-044				5				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.					Arhiv		Namesto identifikacijske številke 13/		
							1	9	3

```


63      ;*****
64      ;*
65      ;*      Console Output
66      ;*
67      ;*****
68      ;
69      ; R0 message pointer      R4 unmodified
70      ; R1 message length counter  R5 return address
71      ; R2 unmodified          SP unmodified
72      ; R3 unmodified
73
74      177564      XCSR = 177564      ; transmitter control/status register
75      177566      XBUF = 177566      ; transmitter data register
76
77      173070 112001      SLD:  MOVB  (R0)+,R1      ; get message length
78
79      173072 105737 177564      10$:  TSTB  @#XCSR      ; transmitter empty?
80      173076 100375          BPL   10$      ; if not, wait
81      173100 112037 177566      MOVB  (R0)+,@#XBUF      ; put character
82      173104 077106          SOB   R1,10$      ; until end of message
83
84      173106 000115          JMP   (R5)      ; return
85

```

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

57

DELOVNA KOPIJA

Izdaja	1					List	Stran	J	K	Identifikacijska številka	do
Št. obvestila	30-044					6				84772044	
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.						Arhiv		Namesto identifikacijske številke			
								19351044			

```


87 ;*****
88 ;*
89 ;*      Console Input (Echo)
90 ;*
91 ;*****
92 ;
93 ; R0 message pointer      R4 unmodified
94 ; R1 message length counter  R5 return address
95 ; R2 time constant      SP unmodified
96 ; R3 time constant
97
98      177560      RCSR =      177560      ; receiver control/status register
99      177562      RBUF =      177562      ; receiver data register
100     004000      TIM  =      4000        ; time constant
101
102 173110 112001      ECHO:  MOVB  (R0)+,R1      ; get input length
103
104 173112 012702 004000      MOV   #TIM,R2      ; set time constant
105 173116 010203      10$:  MOV   R2,R3      ; set time constant
106
107 173120 105737 177560      20$:  TSTB  @RCSR      ; receiver full?
108 173124 100007      BPL   40$      ; if not, wait
109 173126 122037 177562      CMPB  (R0)-,@RBUF      ; test for valid input
110 173132 001043      BNE   ERR      ; if not, error
111 173134 077107      SOB   R1,20$      ; until end of message
112
113 173136 012705 173170'      30$:  MOV   #RAM,R5      ; set return address
114 173142 000752      BR    SLU      ; output message
115
116 173144 077313      40$:  SOB   R3,20$      ; decrement time constant
117 173146 077215      SOB   R2,10$      ; decrement time constant
118
119 173150 012700 173757'      MOV   #TOUTMSG,R0      ; set time out message
120 173154 012705 173162'      MOV   #50$,R5      ; set return address
121 173160 000743      BR    SLU      ; output message
122
123 173162 012700 173732'      50$:  MOV   #RAMMSG,R0      ; set ram message
124 173166 000763      BR    30$      ; set return address
125 ; output message
126

```

Prenos tretjim osebam in uporaba v nedogovorjene namene ništa dovoljena.

57

DELOVNA KOPIJA


Izdaja	1				Lst	Stran	J	K	Identifikacijska številka dok.
Št. obvestila	30-044				7				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.					Arhiv		Namesto identifikacijske številke št.		
							1	9	3


```

128 ;*****
129 ;*
130 ;*          RAM Write/Compare
131 ;*
132 ;*****
133 ;
134 ; R0 unmodified          R4 write=0/verify=1 flags
135 ; R1 data register      R5 return address
136 ; R2 pattern modifier register SP unmodified
137 ; R3 address register
138
139      177746      MEMPAR =      177746      ; memory parity register address
140      160000      RAMLEN =      160000      ; memory length
141
142      001000      ENPAR =      1000      ; parity enable bit
143
144      .ENABL LSB
145 173170 052737 001000 177746 RAM: BIS #ENPAR,@MEMPAR ; enable local memory parity
146
147 173176 005002      CLR R2      ; set initial pattern modifier
148 173200 005004      CLR R4      ; set write/verify flags to write
149
150 173202 005003      10$: CLR R3      ; set initial address
151 173204 022703 000004      20$: CMP #T4,R3      ; non-existent memory trap?
152 173210 001403      BEQ 30$      ; if yes, branch
153 173212 022703 000114      CMP #T114,R3      ; parity error trap?
154 173216 001001      BNE 40$      ; if not, branch
155 173220 022323      30$: CMP (R3)+,(R3)+ ; skip trap
156 173222 010301      40$: MOV R3,R1      ; copy address
157 173224 000301      SWAB R1      ; swap high and low byte of address
158 173226 074301      XOR R3,R1      ; xor high and low byte of address
159 173230 074201      XOR R2,R1      ; xor with pattern modifier
160
161 173232 005704      TST R4      ; test for write/verify flags
162 173234 001407      BEQ 50$      ; branch to write pass
163
164 173236 120123      CNPB R1,(R3)+ ; verify data
165 173240 001411      BEQ 60$      ; if equal, continue
166
167 173242 012700 173747'      ERR: MOV #ERRMSG,R0 ; set error message
168 173246 012705 173000'      LOOP: MOV #START,R5 ; set start return address
169 173252 000706      BR SLU      ; output message
170
171 173254 110123      50$: MOVE R1,(R3)+ ; write data
172 173256 022703 160000      CMP #RAMLEN,R3 ; end of memory bank?
173 173262 001350      BNE 20$      ; no, continue
174
175 173264 005104      60$: COM R4      ; complement write/verify flags
176 173266 001345      BNE 10$      ; branch to verify pass
177 173270 105202      INCB R2      ; next pattern modifier
178 173272 001345      BNE 10$      ; branch to write pass
179
180 173274 012701 173452'      MOV #LDR,R5 ; set return address
181 173300 000671      BR SLU      ; output ready message for load
182
183      .DSABL LSB

```

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

Izdaja	1	57	List	Stran	J	K	Identifikacijska številka dok
Št. obvestila	30-044		8				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.			DELOVNA KOPIJA		Arhiv		
			Namesto identifikacijske številke izd				
			19351044				


```

185 ;*****
186 ;*
187 ;*          Load Diagnostic
188 ;*
189 ;*****
190 ;
191 ; R0 character register          R4 record checksum (low byte)
192 ; R1 time constant              high nibble buffer (high byte)
193 ; R2 load/transfer address      R5 return address
194 ; R3 data byte counter (low byte)
195 ; time constant (high byte)    SP subroutines stack pointer
196
197
198          .ENABL  L5B
199 173302 100063      10$:  BPL  LDR          ; wait for start load command
200 173304 012700 173740' 20$:  MOV  #LDRMSG,R0      ; set ready message for load
201 173310 012705 173316' 30$:  MOV  #LOA,R5         ; set return address
202 173314 000665      BR   SLU          ; output ready message for load
203
204 173316 005004      LOA$: CLR  R4          ; initialize checksum
205 173320 012705 173326'  MOV  #40$,R5         ; set return address
206 173324 000520      BR   INBYT         ; get data byte count
207 173326 010003      40$:  MOV  R0,R3         ; R3 is data byte counter
208 173330 012705 173336'  MOV  #50$,R5         ; set return address
209 173334 000514      BR   INBYT         ; get high byte of address
210 173336 010002      50$:  MOV  R0,R2         ; R2 is address pointer
211 173340 012705 173346'  MOV  #60$,R5         ; set return address
212 173344 000510      BR   INBYT         ; get low byte of address
213 173346 000302      60$:  SWAB R2          ; set high byte of address
214 173350 150002      BISH R0,R2         ; set low byte of address
215 173352 012705 173360'  MOV  #70$,R5         ; set return address
216 173356 000503      BR   INBYT         ; get record type byte
217 173360 005700      70$:  TST  R0          ; test for record type
218 173362 001414      BEQ  90$          ; data record
219 173364 077052      SOB  R0,ERR        ; if not equal error else command record
220 173366 012705 173374'  MOV  #80$,R5         ; set return address
221 173372 000475      BR   INBYT         ; get checksum byte
222 173374 001023      80$:  BNE  120$        ; if not equal, checksum error
223 173376 020227 160000  CMP  R2,#RAMLEN     ; check for valid transfer address
224 173402 103317      BHIS ERR          ; if out of range then error
225 173404 012700 173740'  MOV  #LDRMSG,R0     ; set ready message for end load
226 173410 010205      MOV  R2,R5         ; set return address as start address
227 173412 000626      BR   SLU          ; output message and start execution
228
229 173414 012705 173422'  90$:  MOV  #100$,R5    ; set return address
230 173420 000462      BR   INBYT         ; get data byte
231 173422 020227 160000 100$:  CMP  R2,#RAMLEN     ; check for valid RAM address
232 173426 103305      BHIS ERR          ; if out of range then error
233 173430 110022      MOVB R0,(R2)+      ; load data byte into memory
234 173432 077310      SOB  R3,90$       ; decrement byte count
235 173434 012705 173442'  MOV  #110$,R5       ; set return address
236 173440 000452      BR   INBYT         ; get checksum byte
237 173442 001720      110$: BEQ  20$        ; if checksum ok then get next record
238 173444 012700 173767' 120$: MOV  #NAXMSG,R0 ; else negative acknowledge
239 173450 000717      BR   30$          ; and retry
240
241 173452 012706 173302'  LDR:  MOV  #10$,SP   ; set return address and get character
242          .DSABT  L5B
243

```

Prenos trehjim osebam in uporaba v nedogovorljeno namene ništa dovoljena.

Izdaja	4				List	Stran	J	K	Identifikacijska številka dok.
Št. obvestila	30-044				9				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.					Arhiv		Namesto identifikacijske številke 16		
							1	9	3

57
DELOVNA KOPJA

```


245
246
247
248
249
250
*****
;*
;*          Loader Subroutines
;*
*****
251 173456 012701 010000      INCH: MOV    #2*TIN,R1      ; set time constant
252 173462 000303              SWAB   R3                ; save byte counter
253 173464 105003              CLRB  R3                ; set time constant
254 173466 105737 177560      10$: TSTB  @#RCSR         ; receiver full?
255 173472 100027              BPL   50$               ; if not, wait
256 173474 113700 177562      MOVB  @#RBUF,R0         ; get character
257 173500 022700 000003      CMP   #3,R0            ; start load character ^C?
258 173504 001002              BNE   20$               ; no, continue
259 173506 000270              SEN   ; yes, set negativ flagg
260 173510 000417              BR    40$               ; return
261 173512 162700 000071      20$: SOB  #9,R0          ; convert ascii to hex:
262 173516 003002              BGT   30$
263 173520 062700 000007      ADD   #7,R0
264 173524 062700 000002      30$: ADD   #2,R0
265 173530 002752              BLT   INCH              ; if less then zero ignore not hex
266 173532 042700 000040      BIC   #40,R0            ; for lower case
267 173536 020027 000017      CMP   R0,#15.
268 173542 003345              BGT   INCH              ; if greater then ignore not hex
269 173544 105003              CLRB  R3                ; clean byte counter
270 173546 000303              SWAB  R3                ; restore byte counter
271 173550 000116              40$: JMP   (SP)          ; return
272 173552 105303              50$: DECB R3            ; decrement time constant
273 173554 001344              BNE   10$               ; until zero
274 173556 077135              SOB   R1,10$            ; decrement time constant
275 173560 012700 173757'      MOV   #TOTMSG,R0        ; set time out message
276 173564 000630              BR    LOOP              ; start testing again
277
278 173566 012706 173574'      INBYT: MOV  #10$,SP      ; set return address
279 173572 000731              BR    INCH              ; get high nibble
280 173574 072027 000014      10$: ASH  #12.,R0        ; shift in high byte, high nibble
281 173600 050004              BIS   R0,R4              ; save in R4 high byte
282 173602 012706 173610'      MOV   #20$,SP           ; set return address
283 173606 000723              BR    INCH              ; get low nibble
284 173610 000304              20$: SWAB R4            ; align high nibble
285 173612 150400              BISS  R4,R0              ; merge, high byte is zero
286 173614 000304              SWAB  R4                ; recover old checksum
287 173616 060004              ADD   R0,R4              ; calculate new checksum
288 173620 042704 177400      BIC   #177400,R4        ; clear high byte of checksum
289 173624 000115              JMP   (R5)              ; return
290

```

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

57

DELOVNA KOPIJA

Izdoja	1	Let	Stran	J	K	Identifikacijska številka
Št. obvestila	30-044	10				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.		Arhiv		Namesto identifikacijske številke		
				1935	1044	

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293
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295
296
297

```


*****
;*
;*          Output Messages
;*
*****
    
```

```

298 173626   034          ROMMSG: .BYTE  <SLUMSG-ROMMSG-1>
299 173627   015   012   126          .ASCII  <15><12>/VME CPU J11 Test V1.0/
      173632   115   105   040
      173635   103   120   125
      173640   040   112   061
      173643   061   040   124
      173646   145   163   164
      173651   040   126   061
      173654   056   060
300 173656   015   012   122          .ASCII  <15><12>/ROM/
      173661   117   115
301 173663   035          SLUMSG: .BYTE  <ECHMSG-SLUMSG-1>
302 173664   015   012   103          .ASCII  <15><12>/COT/
      173667   117   124
303 173671   015   012   061          .ASCII  <15><12>/1234560123456789/
      173674   062   063   064
      173677   065   066   060
      173702   061   062   063
      173705   064   065   066
      173710   067   070   071
304 173713   015   012   103          .ASCII  <15><12>/CIN/<5>          ; answerback
      173716   111   116   005
305 173721   010          ECHMSG: .BYTE  <RAMMSG-ECHMSG-1>
306 173722   061   062   063          .ASCII  /12345678/
      173725   064   065   066
      173730   067   070
307 173732   005          RAMMSG: .BYTE  <LDRMSG-RAMMSG-1>
308 173733   015   012   122          .ASCII  <15><12>/RAM/
      173736   101   115
309 173740   006          LDRMSG: .BYTE  <ERRMSG-LDRMSG-1>
310 173741   015   012   114          .ASCII  <15><12>/LDR/<1>          ; load ^A
      173744   104   122   001
311 173747   007          ERRMSG: .BYTE  <TOTMSG-ERRMSG-1>
312 173750   015   012   105          .ASCII  <15><12>/ERR/<0><0>
      173753   122   122   000
      173756   000
313 173757   007          TOTMSG: .BYTE  <NAXMSG-TOTMSG-1>
314 173760   015   012   124          .ASCII  <15><12>/TOT/<0><0>
      173763   117   124   000
      173766   000
315 173767   006          NAXMSG: .BYTE  <NSG-NAXMSG-1>
316 173770   015   012   116          .ASCII  <15><12>/NAX/<4>          ; negative ack 'D'
      173773   101   113   064
317 173776          MSG:
318
319          173776'          .X-173776
320 173776   113006          FOMCH: .WORD  113306          ROM checkut
321
322
323
324          173300'          .END  STAMP
    
```

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

57
DELOVNA KOPIJA

Izdaja	1	List	Stran	J	K	Identifikacijska številka dok
Št. obvestila	30-044	11				84772044
 Iskra Delta proizvodnja računalniških sistemov in inženiring, p.o.		Arhiv	Namesto identifikacijske številke 127 19351044			

Symbol Table

ECHMSG 173721R	LDR 173452R	RAM 173170R	ROMCHK 173776R	TOTMSG 173757R
ECHO 173110R	LDRMSG 173740R	RAMLEN= 160000	ROMLEN= 001000	T114 = 000114
ENPAR = 001000	LOA 173316R	RAMMSG 173732R	ROMMSG 173626R	T4 = 000004
ERR 173242R	LOOP 173246R	RBUF = 177562	SLO 173070R	X = 000000R
ERRMSG 173747R	MEMPAR= 177746	RCSR = 177560	SLOMSG 173663R	XBUF = 177566
INBYT 173566R	MSG 173776R	ROM 173044R	START 173000R	XCSR = 177564
INCH 173456R	NAKMSG 173767R	ROMADD= 173000	TIN = 004000	

.ABS. 000000 000
174000 001

Errors detected: 0

Virtual memory used: 466 words (2 pages)

Dynamic memory: 3086 words (11 pages)


Elapsed time: 00:00:09

,TSTRON=TSTRON

Prenos tretjim osebam in uporaba v nedogovorjene namene nista dovoljena.

57

DELOVNA KOPIJA

Izdaja	1					List	Stran	J	K	Identifikacijska številka del.
Št. obvestila	30-044					12				84772044
 IskraDelta proizvodnja računalniških sistemov in inženiring, p.o.						Arhiv		Namesto identifikacijske številke št.		
								19	35	10