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DECUS NO.	8-84
TITLE	ONE-PASS PAL III
AUTHOR	Krause and Riedl
COMPANY	SIEMENS (Germany)
DATE	August, 1967
SOURCE LANGUAGE	

ONE-PASS PAL III

DECUS Program Library Write-up

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This is a modification to Digital 8-3L-S (August 26, 1965). It is for use on an 8K PDP-8 with ASR-33. The principle of the modification is to store the incoming characters during Pass 1 into the memory extension and to take them from there during Pass 2 and 3. Source programs must be limited to 4095 characters. This modification can save about 40% of assembling time.

Operation of the program is the same as for PAL III (Digital 8-3L-5), except that the reading of the source program for Passes 2 and 3 need not be repeated. For these passes, simply press CONTINUE after setting the correct switches.

Restrictions: The program does not work with high-speed reader/punch.

```

                                /ONE-PASS-PALIII
                                /
                                *201
0201  5210  JMP  .+7
                                *214
0214  5222  JMP  .+6
0215  1457  CHA,CHARA
                                *226
0226  3615  DCA I CHA
                                CHAR=136
                                *1401
1401  4226  JMS GETCHR
1402  7000  NOP
1403  7000  NOP
                                *1426
1426  0000  GETCHR,0
1427  7200  CLA
1430  1134  TAD PF
1431  7640  SZA CLA
1432  5252  JMP GETCH
1433  6031  KSF
1434  5233  JMP  .-1
1435  6036  KRB
1436  3136  DCA CHAR
1437  1136  TAD CHAR
1440  6211  CDF 10
1441  3657  DCA I CHARA
1442  6201  CDF
                                CDF=6201

```

1443	2257	ISZ CHARA
1444	1257	TAD CHARA
1445	7040	CMA
1446	7650	SNA CLA
1447	5261	JMP BFULL
1450	1136	TAD CHAR
1451	5626	JMP I GETCHR
1452	6211	GETCH,CDF 10
1453	1657	TAD I CHARA
1454	6201	CDF
1455	2257	ISZ CHARA
1456	5626	JMP I GETCHR
1457	0000	CHARA,0
1460	0364	LOPUNI,364
1461	1273	BFULL,TAD FULLP
1462	3010	DCA 10
1463	1410	TAD I 10
1464	7450	SNA
1465	5270	JMP ANF
1466	4660	JMS I LOPUNI
1467	5263	JMP BFULL+2
1470	7402	ANF,HLT
1471	5672	JMP I ANFA
1472	0200	ANFA,200
1473	1473	FULLP,.
1474	0215	215
1475	0212	212
1476	0326	326
1477	0317	317
1500	0314	314
1501	0314	314
1502	0241	241
1503	0215	215
1504	0212	212
1505	0000	0

PF=134

ANF	1470
ANFA	1472
BFULL	1461
CDF	6201
CHA	0215
CHAR	0136
CHARA	1457
FULLP	1473
GETCH	1452
GETCHR	1426
LOPUNI	1460
PF	0134