



# DECUS

## PROGRAM LIBRARY

DECUS NO.	8-142
TITLE	Binary Punch - Extended Memory
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COMPANY	Argonne National Laboratory
DATE	
SOURCE LANGUAGE	PAL III

8-142

Binary Punch - Extended Memory

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PAL III

## BINARY PUNCH - EXTENDED MEMORY

DECUS Program Library Write-up

DECUS No. 8-142

### DESCRIPTION

This program is similar to Digital 8-5-U Binary Punch, except that a new entry (the memory field of the block to be punched) is to be entered before the initial and final addresses. The program can punch data which resides in any memory field and is easily modified to use the ASR-33. The program itself resides in MF=1 locations 7600-7730.

### OPERATING INSTRUCTIONS

1. Load program via the BIN loader and turn on punch.
2. LOAD ADDRESS 7600, DF=1, IF=1, and START.
3. Set the number of blocks to be punched into the SR and press CONTINUE.
4. Set the memory field of the next block to be punched into the SR(9-11) and press CONTINUE.
5. Set the initial address of the block to be punched into the SR and press CONTINUE.
6. Set the final address of the block to be punched into the SR and press CONTINUE.

When the block has been punched, repeat steps 4, 5, and 6 until all blocks are punched.

This program is assembled for the high speed punch but only three locations need be modified for the ASR-33 punch.

7601/6046  
7711/6041  
7713/6046

## FIELD 1

\*7600

7600	7300	BPUN,	CLA CLL
7601	6026		PLS
7602	3315		DCA CKSM
7603	4257		JMS PLOT
7604	7402		HLT
7605	7604		LAS
7606	7041		CIA
7607	3316		DCA NB
7610	7402	NXBL,	HLT /SET SR(9-11)=MEMORY FIELD OF NEXT BLOCK
7611	7604		LAS
7612	7106		CLL RTL
7613	7004		RAL
7614	3330		DCA FLD
7615	1326		TAD CHNG
7616	1330		TAD FLD
7617	3220		DCA .+1
7620	0000		0 / A CDF INSTRUCTION
7621	1330		TAD FLD
7622	1327		TAD K300
7623	4310		JMS PUN /C(AC)=FIELD SETTING FOR BINARY LOADER
7624	7402		HLT
7625	7604		LAS
7626	3317		DCA IA
7627	7402		HLT
7630	7604		LAS
7631	7001		IAC
7632	3320		DCA FA
7633	1317		TAD IA
7634	7120		STL
7635	4270	PUNL,	JMS BINP
7636	1317		TAD IA
7637	7041		CIA
7640	1320		TAD FA
7641	7650		SNA CLA
7642	5247		JMP .+5
7643	1717		TAD I IA
7644	7100		CLL
7645	2317		ISZ IA
7646	5235		JMP PUNL
7647	2316		ISZ NB
7650	5210		JMP NXBL
7651	1315		TAD CKSM
7652	7100		CLL
7653	4270		JMS BINP
7654	4257		JMS PLOT
7655	7402	LEADER,	HLT
7656	5200		JMP BPUN
7657	0000	PLOT,	0
7660	7300		CLA CLL
7661	1255		TAD LEADER
7662	3321		DCA CTRI
7663	1322		TAD C200
7664	4310		JMS PUN
7665	2321		ISZ CTRI
7666	5264		JMP .-2

7667	5657		JMP I PLOT
7670	0000	BINP,	0
7671	3323		DCA TEMP1
7672	1323		TAD TEMP1
7673	7012		RTR
7674	7012		RTR
7675	7012		RTR
7676	0324		AND SL7
7677	4310		JMS PUN
7700	1315		TAD CKSM
7701	3315		DCA CKSM
7702	1323		TAD TEMP1
7703	0325		AND SL6
7704	4310		JMS PUN
7705	1315		TAD CKSM
7706	3315		DCA CKSM
7707	5670		JMP I BINP
7710	0000	PUN,	0
7711	6021		PSF
7712	5311		JMP .-1
7713	6026		PLS
7714	5710		JMP I PUN
7715	0000	CKSM,	0
7716	0000	NB,	0
7717	0000	IA,	0
7720	0000	FA,	0
7721	0000	CTR1,	0
7722	0200	C200,	200
7723	0000	TEMP1,	0
7724	0177	SL7,	177
7725	0077	SL6,	77
7726	6201	CHNG,	CDF 0
7727	0300	K300,	300
7730	0000	FLD.	0