



DECUS

PROGRAM LIBRARY

DECUS NO.	8-94
TITLE	BLACKJACK
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COMPANY	Ford Motor Company Dearborn, Michigan
DATE	September 5, 1967
FORMAT	

DESCRIPTION OF BLACKJACK PROGRAM FOR PDP-8*, PDP-8S*, AND
PDP-5*

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INSTRUCTIONS FOR USE

LOAD PROGRAM INTO CORE WITH THE BIN LOADER. SET STARTING ADDRESS OF 200 INTO SWITCH REGISTER, PRESS LOAD ADDRESS, AND THEN PRESS START. PROGRAM WILL ASK HOW MANY TIMES IT SHOULD SHUFFLE THE DECK BEFORE THE GAME STARTS. TYPE IN ANY UNSIGNED INTEGER NUMBER AND THEN RETURN. NEXT, THE PROGRAM WILL ASK FOR A WAGER. TYPE IN ANY UNSIGNED INTEGER NUMBER FOLLOWED BY A RETURN. PLAYER AND DEALER WILL EACH BE DEALT TWO CARDS, BUT ONLY ONE OF THE DEALER'S CARDS WILL BE SHOWN AT THIS TIME.

AT THIS POINT THE PROGRAM WILL CHECK TO SEE IF ANYONE HAS A TOTAL OF 21 (BLACKJACK). IF THE DEALER HAS BLACKJACK, HE WINS (NO MATTER WHAT THE PLAYER HAS). IF THE PLAYER HAS BLACKJACK AND THE DEALER DOESN'T, THEN THE PLAYER WINS. IF NEITHER HAS BLACKJACK, THE DEALER WILL ASK THE PLAYER IF HE WANTS ANOTHER CARD BY TYPING:

HIT?

IF THE PLAYER DOESN'T WANT ANOTHER CARD, HE SHOULD TYPE "N", "0", OR "Ø". ANY OTHER RESPONSE IS ASSUMED TO MEAN "YES". ONLY ONE CHARACTER IS EXPECTED AS A RESPONSE, AND THE COMPUTER WILL ISSUE A CARRIAGE RETURN AS SOON AS ONE CHARACTER HAS BEEN TYPED. IF THE ANSWER IS "YES", A CARD IS DEALT AND THE PLAYER IS AGAIN ASKED IF HE WANTS ANOTHER CARD. THIS CONTINUES UNTIL THE PLAYER'S TOTAL IS OVER 21 OR THE PLAYER RESPONDS "NØ".

AT THIS POINT THE DEALER'S COVERED CARD WILL BE REVEALED, AND THE DEALER MAY DEAL HIMSELF MORE CARDS. THEN THE WINNER (HIGHEST TOTAL NOT EXCEEDING 21) IS DETERMINED AND THE WAGERED MONEY IS EITHER ADDED TO OR SUBTRACTED FROM THE PLAYER'S TOTAL WINNINGS. A TIE AT THIS POINT IS TREATED AS A VOID GAME AND NEW CARDS ARE DEALT.

ACES CAN COUNT AS 1 OR 11. WHEN THE DECK IS EXHAUSTED THE CARDS ARE RESHUFFLED (EXCEPT FOR THOSE WHICH ARE CURRENTLY IN PLAY) AND THE GAME CONTINUES. THE GAME IS ENDED WHEN THE PLAYER MAKES A WAGER OF 0. THE COMPUTER WILL INDICATE WHO WON AND THEN HALT. THE GAME MAY BE RESTARTED BY PRESSING CONTINUE.

NOTE: IF THE PLAYER'S WINNINGS (OR LOSINGS) EXCEED 2000, SOME TROUBLE MAY DEVELOP SINCE THE LARGEST POSSIBLE INTEGER NUMBER WHICH CAN BE STORED IN THE COMPUTER IS JUST A LITTLE OVER 2000.

INFORMATION ON STRUCTURE OF PROGRAM

THE PROGRAM IS STRAIGHTFORWARD, WITH SUBROUTINES USED FOR MOST OF THE PROCESSING. SHUFFLING IS HANDLED BY USE OF A RANDOM NUMBER GENERATOR SUBROUTINE. THE "NUMBER OF TIMES TO SHUFFLE THE DECK" ASKED FOR AT THE BEGINNING OF THE PROGRAM PROVIDES AN INITIAL RANDOM NUMBER TO USE IN SHUFFLING THE DECK.

CARDS ARE DEALT FROM THE "SHUFFLED DECK" ARRAY R. AS THEY ARE PLAYED, THEY ARE STORED IN A "TEMPORARY DECK" V. AT THE END OF THE HAND THEY ARE RETURNED TO THE "USED CARD DECK" A. WHEN THE SHUFFLED DECK IS EXHAUSTED, THE USED CARD DECK A IS RESHUFFLED AND BECOMES THE NEW DECK R.

THE INITIAL WAGER DETERMINES A "HOUSE LIMIT" (30 TIMES INITIAL WAGER) WHICH INSURES THAT THE PLAYER CANNOT DOUBLE HIS BET FOREVER.

*
Note: Requires EAE

Sample Run
of
Blackjack Program

BIG BROTHER IS WATCHING YOU

WAGER ANY AMOUNT 0 WAGER ENDS GAME

HOW MANY TIMES SHOULD I SHUFFLE THE DECK?48
YOU STAND \$0 AHEAD. WHAT IS YOUR WAGER?10
YOUR CARD IS 9 SPADES

I SHOW 3 HEARTS
YOUR CARD IS 7 DIAMONDS
HIT?N
DEALER'S COVERED CARD IS 8 SPADES
4 CLUBS
6 CLUBS

I WIN
YOU STAND \$10 IN THE HOLE. WHAT IS YOUR WAGER?20
YOUR CARD IS 2 CLUBS

I SHOW A HEARTS
YOUR CARD IS 6 HEARTS
DEALER HAS BLACKJACK.
DEALER'S COVERED CARD IS J SPADES

I WIN
YOU STAND \$30 IN THE HOLE. WHAT IS YOUR WAGER?40
YOUR CARD IS 2 HEARTS

I SHOW 7 CLUBS
YOUR CARD IS 5 SPADES
HIT?Y

4 SPADES

HIT?Y

3 SPADES

HIT?Y

Q CLUBS

YOU HAVE BUSTED
DEALER'S COVERED CARD IS A SPADES

I WIN
YOU STAND \$70 IN THE HOLE. WHAT IS YOUR WAGER?80
YOUR CARD IS 7 SPADES

I SHOW K HEARTS
YOUR CARD IS Q HEARTS
HIT?N

DEALER'S COVERED CARD IS J HEARTS
I WIN

YOU STAND \$150 IN THE HOLE. WHAT IS YOUR WAGER?100
YOUR CARD IS 4 DIAMONDS

I SHOW 10 HEARTS
YOUR CARD IS 3 CLUBS
HIT?Y

A CLUBS

HIT?N

DEALER'S COVERED CARD IS 7 HEARTS
YOU WIN

YOU STAND \$10 AHEAD. WHAT IS YOUR WAGER?10
YOUR CARD IS 9 DIAMONDS

I SHOW K DIAMONDS
YOUR CARD IS 8 CLUBS
HIT?N

DEALER'S COVERED CARD IS 8 HEARTS
I WIN
YOU STAND 20 AHEAD. WHAT IS YOUR WAGER?20
YOUR CARD IS 12 SPADES
I SHOW 2 DIAMONDS
YOUR CARD IS 4 HEARTS
HIT?Y

9 HEARTS
YOU HAVE BUSTED
DEALER'S COVERED CARD IS K CLUBS
I WIN
YOU STAND \$20 IN THE HOLE. WHAT IS YOUR WAGER?20
YOU OWE ME \$20

/ DATA FOR BLACKJACK PROGRAM

/

0030	0301	CA,	*30
0031	0302	CB,	301
0032	0303	CC,	302
0033	0304	CD,	303
0034	0305	CE,	304
0035	0306	CF,	305
0036	0307	CG,	306
0037	0310	CH,	307
0040	0311	CI,	310
0041	0312	CJ,	311
0042	0313	CK,	312
0043	0314	CL,	313
0044	0315	CM,	314
0045	0316	CN,	315
0046	0317	CO,	316
0047	0320	CP,	317
0050	0321	CQ,	320
0051	0322	CR,	321
0052	0323	CS,	322
0053	0324	CT,	323
0054	0325	CU,	324
0055	0326	CV,	325
0056	0327	CW,	326
0057	0330	CX,	327
0060	0331	CY,	330
0061	0332	CZ,	331
0062	0260	C0,	332
0063	0261	C1,	260
0064	0262	C2,	261
0065	0263	C3,	262
0066	0264	C4,	263
0067	0265	C5,	264
0070	0266	C6,	265
0071	0267	C7,	266
0072	0270	C8,	267
0073	0271	C9,	270
0074	0215	CCR,	271
0075	0212	CLF,	215
0076	0240	CSP,	212
0077	0244	CDOL,	240
0100	0247	CAPOS,	244
0101	0256	CPER,	247
0102	0277	CQM,	256
0103	7563	MCR,	277

/

0104	1223	ANUP,	NUP
0105	2433	CTYPE,	CTYPE1
0106	0307	DCOV,	DCOV1
0107	0674	DDEAL,	DDEAL1
0110	1400	DEAL,	DEAL1
0111	1431	DEALL,	DEAL2
0112	3502	NPRINT,	NPRT1
0113	3450	NREAD,	NREAD1
0114	3500	NTIMS,	NTIMS1
0115	1000	NUDL,	NUDEAL
0116	2600	PDEAL,	PDEAL1
0117	2230	PRC10,	PRCR01
0120	3400	PRINT,	PRINT1

0121	3417	PRT,	PRT1
0122	3557	RAND,	RAND1
0123	3440	READC,	READC1
0124	3424	READ,	READ1
0125	3626	SHUFFL,	SHUFL1
0126	0200	START,	START1

0127	7777	M1,	-1
0130	7775	M3,	-3
0131	7774	M4,	-4

0132	0001	P1,	1
0133	0002	P2,	2

0134	0000	JUNK,	0
0135	0000	JUNK1,	0
0136	0000	JUNK2,	0
0137	0000	JUNK3,	0
0140	0000	JUNK5,	0

0141	0000	A0,	0	/ NUMBER OF CARDS IN DECK (A)
0142	0000	A1,	0	

0143	0000	A2,	0
0144	0000	A3,	0
0145	0000	A9,	0
0146	0000	DCMRK,	0

/ =1 IF PRINTING DEALER'S COVERED CARD

0147	0000	K9,	0
0150	0000	X,	0

/ RANDOM NUMBER

0151	0000	S3,	0
0152	0000	S4,	0

/ DEALER'S CARD TOTAL

/ PLAYER'S CARD TOTAL

0153	0000	W,	0
0154	0000	W3,	0

/ CURRENT CARD (FROM DECK R)

/ CURRENT WAGER

0155	0000	W1,	0
0156	0000	T,	0

/ PLAYER'S WINNINGS

/ 0 INITIALLY, 1 LATER

0157	0000	V0,	0
0158	0000	00,	0

/ INDEXES V

/ =1 AFTER FIRST SHUFFLE

0161	0000	M,	0
0162	0000	MM,	0

0163	0000	P,	0
0164	0000	RG,	0

/ # OF CARDS IN DECK R

/ 1 FOR DEALER, 2 FOR PLAYER

0165	0000	E,	0
0166	0000	H,	0

0167	0000	H0,	0
0170	0000	J,	0

0171	0000		0
0172	0000		0

0173	0000	MS,	0
0174	0000	Q,	0

/ HOUSE LIMIT (INITIAL WAGER * 30)

0175	0000	N,	0
------	------	----	---

		/	
		/	

*2

0002	3000	CLOC,	C
0003	3100	ALOC,	A

0004	3200	RLOC,	R
0005	3270	BLOC,	B

0006	3300	VLOC,	V
------	------	-------	---

		/	
		/	

*3000

3000	0000	C,	0
------	------	----	---

/ CARD DESCRIPTIONS

*3100

0100	0200	A,	0
------	------	----	---

/ USED CARDS

*3200

```

3233 0230 R,      0      / SHUFFLE DECK
          *3270
3270 0300 B,      0
          *3300
3300 0000 V,      0      / CARDS CURRENTLY BEING PLAYED
/
/
/
/ BASIC SUBROUTINES FOR BLACKJACK PROGRAM
/
          *3400
3400 0000 PRINT1, 0
3401 7200      CLA
3402 1200      TAD PRINT1
3403 1127      TAD MI
3404 3310      DCA 10
3405 1410 PRLOOP, TAD I 10
3406 7450      SNA
3407 5410      JMP I 10
3408 3134      DCA JUNK
3409 6041      TSF
3410 5211      JMP .-1
3411 1534      TAD I JUNK
3412 6046      TLS
3413 7200      CLA
3414 5205      JMP PRLOOP
/
/
3417 0000 PRT1, 0
3420 6041      TSF
3421 5220      JMP .-1
3422 6046      TLS
3423 5617      JMP I PRT1
/
/
3424 0000 READ1, 0
3425 6031      KSF
3426 5225      JMP .-1
3427 6036      KRE
3430 3135      DCA JUNK2
3431 1136      TAD JUNK2
3432 6041      TSF
3433 5232      JMP .-1
3434 6046      TLS
3435 7200      CLA
3436 1136      TAD JUNK2
3437 5624      JMP I READ1
/
/
3440 0000 READC1, 0
3441 4224      JMS READ1
3442 3135      DCA JUNK1
3443 4200      JMS PRINT1
3444 5674
3445 0075
3446 0000      CLR; CLF; 0
3447 7200      CLA
3450 1135      TAD JUNK1
3451 5640      JMP I READC1
/
/
3452 0000 WREAD1, 0
3453 7200      CLA
3454 3137      DCA JUNK3
3455 4524      JMS I READ
3456 3135      DCA JUNK1

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3457	1135		TAD	JUNK1
3460	1133		TAD	MCR
3461	7550		SNA	CLA
3462	5273		JMP	NRXIT
3463	1137		TAD	JUNK3
3464	7425		MQL	MUY
3465	5212		I2	
3466	7531		MQA	
3467	1135		TAD	JUNK1
3470	1321		TAD	M253
3471	3137		DCA	JUNK3
3472	5255		JMP	NRLOOP
3473	4230	NRXIT,	JMS	PRINT1
3474	0075			
3475	0000		CLF;3	
3476	7200		CLA	
3477	1137		TAD	JUNK3
3500	5652		JMP	I NREAD1
/				
3501	7520	M250,	-260	
/				
/				
3502	0000	NPRT1,	0	
3503	7200		CLA	
3504	3345		DCA	CNTR
3505	1346		TAD	DIGAD
3506	3011		DCA	11
3507	1702		TAD	I NPRT1
3510	3136		DCA	JUNK2
3511	1536		TAD	I JUNK2
3512	7100	NPLOOP,	CLL	
3513	7427		MQL	DVI
3514	0012		I2	
3515	3411		DCA	I 11
3516	2345		ISZ	CNTR
3517	7501		MQA	
3520	7440		SZA	
3521	5312		JMP	NPLOOP
3522	7200		CLA	
3523	1345		TAD	CNTR
3524	7041		CMA	IAC
3525	3345		DCA	CNTR
3526	1311		TAD	11
3527	3344		DCA	CTR2
3530	1744	NPLP2,	TAD	I CTR2
3531	1343		TAD	P260
3532	4521		JMS	I PRT
3533	7200		CLA	
3534	1344		TAD	CTR2
3535	1127		TAD	M1
3536	3344		DCA	CTR2
3537	2345		ISZ	CNTR
3540	5330		JMP	NPLP2
3541	2302		ISZ	NPRT1
3542	5702		JMP	I NPRT1
/				
3543	0260	P260,	050	
3544	0000	CTR2,	0	
3545	0000	CNTR,	0	
3546	3546	DIGAD,	DIG-1	
3547	0000	DIG,	0	
3550	0000		0	
3551	0000		0	
3552	0000		0	
3553	0000		0	
3554	0000		0	

3555	0000		0
3556	0000		0
		/	
		/	
3557	0000	RAND1,	0
3560	7200		CLA
3561	1147		TAD K9
3562	7425		MQL MUY
			DECIMAL
3563	1161		625
			OCTAL
3564	7501		MQA
3565	0374		AND P3777
3566	3147		DCA K9
3567	1147		TAD K9
3570	7100		CLL
3571	7427		MQL DVI
			DECIMAL
3572	0144		100
			OCTAL
3573	5757		JMP I RAND1
3574	3777	P3777,	3777
		/	
		/	
			*3600
3600	0000	NTIMS1,	0
3601	7200		CLA
3602	1600		TAD I NTIMS1 / N
3603	3224		DCA NNN
3604	1224		TAD NNN
3605	7041		CMA IAC
3606	3140		DCA JUNK5
3607	2200		ISZ NTIMS1
3610	1600		TAD I NTIMS1 / LOC
3611	3225		DCA JUNK4
3612	1140	NTIMSL,	TAD JUNK5
3613	1224		TAD NNN
3614	7001		IAC
3615	3217		DCA ARG
3616	4625		JMS I JUNK4
3617	0000	ARG,	0
3620	2140		ISZ JUNK5
3621	5212		JMP NTIMSL
3622	2200		ISZ NTIMS1
3623	5600		JMP I NTIMS1
		/	
3624	0000	NNN,	0
3625	0000	JUNK4,	0
		/	
		/	
3626	0000	SHUFL1,	0
3627	7200		CLA
3630	1141		TAD A0
3631	3233		DCA .+2
3632	4514		JMS I NTIMES
3633	0000		0
3634	3636		SHUFL2
3635	5626		JMP I SHUFL1
		/	
3636	0000	SHUFL2,	0
3637	7200		CLA
3640	1636		TAD I SHUFL2
3641	3175		DCA "
3642	4522		JMS I RAND
3643	3150		DCA X
3644	1141		TAD A0

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3645 1132 TAD P1
3646 7341 CMA IAC
3647 1175 TAD N
3650 7341 CMA IAC
3651 3254 DCA Y
3652 1150 TAD X
3653 7427 MQL DVI
3654 0000 Y, 0
3655 1132 TAD P1
3656 3276 DCA ZZ1
3657 1003 TAD ALOC
3660 1276 TAD ZZ1
3661 3136 DCA JUNK2
3662 1004 TAD RLOC
3663 1175 TAD N
3664 3137 DCA JUNK3
3665 1536 TAD I JUNK2
3666 3537 DCA I JUNK3
3667 1003 TAD ALOC
3670 1254 TAD Y
3671 3137 DCA JUNK3
3672 1537 TAD I JUNK3
3673 3536 DCA I JUNK2
3674 2236 ISZ SHUFL2
3675 5636 JMP I SHUFL2

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/
3676 0000 ZZ1, 0
/
/
/ ***** END OF PART I *****
/
/ BLACKJACK PROGRAM
/

```

```

*200
0200 6032 START1, KCC
0201 6046 TLS
0202 4520 JMS I PRINT
0203 0074
0204 0275
0205 0075 CCR; CLF; CLF
0206 0031
0207 0040
0210 0036
0211 0076
0212 0031
0213 0051
0214 0046
0215 0053
0216 0037
0217 0034
0220 0051
0221 0076 CB; CI; CG; CSP; CB; CR; CO; CT; CH; CE; CR; CSP
0222 0040
0223 0052
0224 0076
0225 0056
0226 0030
0227 0053
0230 0032
0231 0037
0232 0045
0233 0045
0234 0036
0235 0076 CI; CS; CSP; CW; CA; CT; CC; CH; CI; CW; CG; CSP
0236 0032
0237 0046

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0240 0054
0241 0074
0242 0075
0243 0075

CY; CO; CU; CCK; CLF; CLF;

0244 0056
0245 0030
0246 0036
0247 0034
0250 0051
0251 0076
0252 0030
0253 0045
0254 0060
0255 0076
0256 0030
0257 0044
0260 0046

0261 0054
0262 0045
0263 0053

CW; CA; CG; CE; CR; CSP; CA; CN; CY; CSP; CA; CN; CG; CU; CM; CT; CE

0264 0076
0265 0076
0266 0076
0267 0052
0270 0076
0271 0056

0272 0030
0273 0036
0274 0034

0275 0051
0276 0076
0277 0034

0300 0045
0301 0033
0302 0052

CSP; CSP; CB; CSP; CW; CA; CG; CE; CR; CSP; CE; CN; CD; CS; CSP

0303 0076
0304 0036
0305 0030

0306 0044
0307 0034
0310 0074

0311 0075
0312 0075
0313 0037

0314 0046
0315 0056
0316 0076

0317 0044
0320 0030
0321 0045

0322 0060
0323 0076
0324 0053

CG; CA; CM; CE; CCR; CLF; CLF; CH; CO; CW; CSP; CM; CA; CN; CY; CSP

0325 0040
0326 0044
0327 0034

0330 0052
0331 0076
0332 0052

0333 0037
0334 0046
0335 0054

0336 0043
0337 0033
0340 0076

0341	0040			
0342	0076			CT; CI; CM; CE; CS; CSP; CS; CH; CO; CU; CL; CD; CSP; CI; CSP
0343	0052			
0344	0037			
0345	0054			
0346	0035			
0347	0035			
0350	0043			
0351	0034			
0352	0076			
0353	0053			
0354	0037			
0355	0034			
0356	0076			
0357	0033			
0360	0034			
0361	0032			
0362	0042			
0363	0102			
0364	0000			CS; CH; CU; CF; CF; CL; CE; CSP; CT; CH; CE; CSP; CD; CE; CC; CK; CM
0365	5766			JMP I READSH
		/		
0366	0400	READSH,	RDSHUF	
		/		
		/		
			*400	
		/		
		/		
0400	4513	RDSHUF,	JMS I NREAD	
0401	7124		STL RAL / AC*2+1	
0402	3147		DCA K9	
0403	3156		DCA I	
0404	1304		TAD P64	
0405	3141		DCA A0	
0406	3157		DCA V0	
0407	3160		DCA Q0	
0410	3146		DCA DCMRK	
0411	3155		DCA W1	
0412	1003		TAD ALOC	
0413	3010		DCA I0	
0414	1302		TAD CLOC	
0415	3011		DCA I1	
0416	1131		TAD M4	
0417	3134		DCA JUNK	
0420	1132		TAD P1	
0421	3140		DCA JUNK5	
0422	3136		DCA JUNK2	
0423	1306	MLOOP2,	TAD M15	
0424	3135		DCA JUNK1	
0425	1305		TAD P144	
0426	1136		TAD JUNK2	
0427	3136		DCA JUNK2	
0430	1132		TAD P1	
0431	3137		DCA JUNK3	
0432	1136	MLOOP1,	TAD JUNK2	
0433	1137		TAD JUNK3	
0434	3411		DCA I 11	
0435	2137		ISZ JUNK3	
0436	1140		TAD JUNK5	
0437	3410		DCA I 10	
0440	2140		ISZ JUNK5	
0441	2135		ISZ JUNK1	
0442	5232		JMP MLOOP1	
0443	2134		ISZ JUNK	
0444	5203		JMP MLOOP2	
0445	4247		JMS NUSHUF	

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0446 5515      JMP I NUOL
/
/ START WITH NEW SHUFFLE
/
0447 0000      NUSHUF, 0
0450 4525      JMS I SHUFFL
0451 7200      CLA
0452 1141      TAD A0
0453 3164      DCA R0
0454 3141      DCA A0
0455 3175      DCA N
0456 5647      JMP I NUSHUF
/
/ RESHUFFLE
/
0457 0000      RESHUF, 0
0460 4520      JMS I PRINT
0461 0051
0462 0034
0463 0052
0464 0037
0465 0054
0466 0035
0467 0035
0470 0043
0471 0034
0472 0074
0473 0075
0474 0000      CR; CE; CS; CH; CU; CF; CF; CL; CE; CCR; CLF; 3
0475 7201      CLA IAC
0476 3160      DCA Q0
0477 4247      JMS NUSHUF
0500 2175      ISZ N
0501 7200      CLA
0502 5657      JMP I RESHUF
/
0503 0015      P15, 15
0504 0064      P64, 64
0505 0144      P144, 144
0506 7763      M15, -15
/
/ *600
/
/ END
/
0600 7200      PAYOUT, CLA
0601 1155      TAD W1
0602 7450      SNA
0603 5234      JMP PAYEND
0604 7500      SNA
0605 5236      JMP COLLECT
0606 7041      CMA IAC
0607 3137      DCA JUNK3
0610 4520      JMS I PRINT
0611 0000
0612 0046
0613 0054
0614 0076
0615 0046
0616 0056
0617 0034
0620 0076
0621 0044
0622 0034
0623 0076
0624 0077

```

0615	0003		CY; CO; CU; CSP; CO; CW; CE; CSP; CM; CE; CSP; CDOL; 0
0616	4512		JMS I NPRINT
0627	0137		JUNK3
0630	4520		JMS I PRINT
0631	0074		
0632	0075		
0633	0003		CCR; CLF; 0
0634	7402	PAYEND,	HLT
0635	5526		JMP I START
0636	3137	COLECT,	DCA JUNK3
0637	4520		JMS I PRINT
0640	0032		
0641	0046		
0642	0043		
0643	0043		
0644	0034		
0645	0032		
0646	0053		
0647	0076		
0650	0077		
0651	0003		CC; CO; CL; CL; CE; CC; CT; CSP; CDOL; 0
0652	4512		JMS I NPRINT
0653	0137		JUNK3
0654	4520		JMS I PRINT
0655	0076		
0656	0035		
0657	0051		
0660	0046		
0661	0044		
0662	0076		
0663	0033		
0664	0040		
0665	0036		
0666	0040		
0667	0053		
0670	0030		
0671	0043		
0672	0076		CSP; CF; CR; CO; CM; CSP; CD; CI; CG; CI; CT; CA; CL; CSP
0673	0034		
0674	0050		
0675	0054		
0676	0040		
0677	0047		
0700	0044		
0701	0034		
0702	0045		
0703	0053		
0704	0076		CE; CQ; CU; CI; CP; CM; CE; CN; CT; CSP
0705	0032		
0706	0046		
0707	0051		
0710	0047		
0711	0046		
0712	0051		
0713	0030		
0714	0053		
0715	0040		
0716	0046		
0717	0045		
0720	0074		
0721	0075		
0722	0003		CC; CC; CR; CR; CO; CR; CA; CT; CI; CO; CN; CCR; CLF; 0
0723	7402		HLT
0724	5526		JMP I START

/

*1000

/
/ NEW DEAL
/

1000 4520 NUDEAL, JMS I PRINT
1001 0060
1002 0046
1003 0054
1004 0076
1005 0052
1006 0053
1007 0030
1010 0045
1011 0033
1012 0076
1013 0077
1014 0000
1015 7200
1016 1155
1017 7510
1020 7041
1021 3137
1022 4512
1023 0137
1024 7200
1025 1155 TAD
1026 7510
1027 5242
1030 4520
1031 0076
1032 0030
1033 0037
1034 0034
1035 0030
1036 0033
1037 0101
1040 0000
1041 5261
1042 4520 NEGMON, JMS I PRINT
1043 0076
1044 0040
1045 0045
1046 0076
1047 0053
1050 0037
1051 0034
1052 0076
1053 0037
1054 0046
1055 0043
1056 0034
1057 0101
1060 0000
1061 4520 WAG, JMS I PRINT
1062 0076
1063 0076
1064 0056
1065 0037
1066 0030
1067 0053
1070 0076
1071 0040
1072 0052
1073 0076
1074 0060
1075 0046

CY; CO; CU; CSP; CS; CT; CA; CN; CD; CSP; CDOL; 0

CLA

TAD WI

SPA

CMA IAC

DCA JUNK3

JMS I NPRINT

JUNK3

CLA

WI

SPA

JMP NEGMON

JMS I PRINT

CSP; CA; CH; CE; CA; CD; CPER; 0

JMP WAG

NEGMON, JMS I PRINT

CSP; CI; CN; CSP; CT; CH; CE; CSP; CH; CC; CL; CE; CPER; 0

WAG, JMS I PRINT

1075	0054		
1077	0051		
1100	0076		
1101	0056		
1102	0030		CSP; CSP; CW; CH; CA; CT; CSP; CI; CS; CP; CL; CC; CA; CSP; CF
1103	0036		
1104	0034		
1105	0051		
1106	0102		
1107	0000		CG; CE; CR; CQM; C
1110	4513	WAGIN,	JMS I NREAD
1111	7450		SNA
1112	5767		JMP I PAY
1113	3154		DCA W0
1114	1156		TAD T
1115	7653		SNA CLA
1116	5325		JMP L720
1117	1154		TAD W0
1120	7041		CMA IAC
1121	1173		TAD M0
1122	7710		SPA CLA
1123	5770		JMP I BIG
1124	5334		JMP L740
1125	7201	L720,	CLA IAC
1126	3156		DCA T
1127	1154		TAD W0
1130	7425		MQL MUY
			DECIMAL
1131	0036		30
			OCTAL
1132	7501		MQA
1133	3173		DCA M0
1134	3163	L740,	DCA P
1135	3151		DCA S3
1136	3152		DCA S4
1137	1157		TAD V0
1140	7450		SNA
1141	5771		JMP I AL830
1142	3344		DCA .+2
1143	4514		JMS I NTIMES
1144	0000		0
1145	1150		SUB1
1146	5747		JMP I AL810
1147	1200	AL810,	L810
1150	0000	SUB1,	0
1151	7200		CLA
1152	1750		TAD I SUB1
1153	3136		DCA JUNK0
1154	1136		TAD JUNK0
1155	1000		TAD VLOC
1156	3137		DCA JUNK3
1157	1136		TAD JUNK2
1158	1141		TAD A0
1159	1000		TAD AL00
1160	3136		DCA JUNK2
1163	1537		TAD I JUNK3
1164	3536		DCA I JUNK2
1165	2300		ISZ SUB1
1166	3750		JMP I SUB1
		/	
1167	0500	PAY,	PAYOUT
1170	1073	BIG,	BIGEST
1171	1200	AL830,	L830
		/	
			> 1000
		/	

1200	7200	L810,	CLA	
1201	1141		TAD	A0
1202	1157		TAD	V0
1203	3141		DCA	A0
1204	3157		DCA	V0
1205	7200	L830,	CLA	
1206	3171		DCA	J+1
1207	3172		DCA	J+2
1210	4514		JMS	I NTIMES
1211	0312		I3	
1212	1214		SUB2	
1213	5223		JMP	NUP
1214	0230	SUB2,	Ø	
1215	1614		TAD	I SUE2
1216	1005		TAD	BLOC
1217	3136		DCA	JUNK2
1220	3536		DCA	I JUNK2
1221	2214		ISZ	SUB2
1222	5614		JMP	I SUB2

/
/
/

1223	7200	NUP,	CLA	
1224	1163		TAD	P
1225	7710		RAR	
1226	7200		CLA	
1227	7234		RAL	
1230	7031		IAC	
1231	3165		DCA	E
1232	1165		TAD	E
1233	1127		TAD	M1
1234	7650		SNA	CLA
1235	5262		JMP	L940
1236	1163		TAD	P
1237	1130		TAD	M3
1240	7650		SNA	CLA
1241	5331		JMP	L950
1242	4523		JMS	I PRINT

1243 0040
1244 0076
1245 0052
1246 0037
1247 0046
1250 0056
1251 0076
1252 0076
1253 0076
1254 0076
1255 0076
1256 0076
1257 0076

1260	0000		CI; CSP; CS; CW; CO; CW; CSP; CSP; CSP; CSP; CSP; CSP; CSP; Ø
1261	5331		JMP L950
1262	4523	L940,	JMS I PRINT

1263 0060
1264 0046
1265 0054
1266 0051
1267 0076
1270 0032
1271 0032
1272 0051
1273 0033
1274 0076
1275 0040
1276 0052

1277	0276		
1300	0000		CY; CO; CU; CR; CSP; CC; CA; CR; CD; CSP; CI; CS; CSP; C
1301	4510	L953,	JMS I DEAL
1302	7200		CLA
1303	2163		ISZ P
1304	1163		TAD P
1305	1131		TAD M4
1306	7440		SZA
1307	5223		JMP WUP

/
/ CHECK FOR ELACKJACK

1310	7200	CHECK,	CLA
1311	1151		TAD S3
1312	1365		TAD M25
1313	7650		SNA CLA
1314	5763		JMP I DEKJK
1315	1152		TAD S4
1316	1365		TAD M25
1317	7650		SNA CLA
1320	5764		JMP I PBKJK
1321	4516		JMS I PDEAL
1322	7200		CLA
1323	1133		TAD P
1324	3165		DCA P
1325	4506		JMS I DCCV
1326	4507		JMS I DEAL

/
/ DETERMINE WINNER

1327	7200		CLA
1330	1151		TAD S3
1331	7041		CMA IAC
1332	1152		TAD S4
1333	7510		SPA
1334	5766		JMP I AIWIN
1335	7440		SZA
1336	5767		JMP I AYWIN
1337	4520		JMS I PRINT

1340 0036
1341 0033
1342 0044
1343 0034
1344 0076
1345 0040
1346 0052
1347 0076
1350 0030
1351 0076
1352 0033
1353 0051
1354 0030
1355 0056
1356 0076

CG; CA; CM; CE; CSP; CI; CS; CSP; CA; CSP; CB; C ; CA; CL; C ;

1357	0074		
1360	0075		
1361	0000		CCR; CLF; C
1362	5770		JMP I AL740

1363	1474	DBKJK,	DLBKJK
1364	1630	PBKJK,	PLBKJK
1365	7753	M25,	-25
1366	1554	AIWIN,	IWIN
1367	1653	AYWIN,	YOUWIN
1370	1134	AL740,	L740

/
 /
 / ***** END OF SECOND PART *****
 *1400

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/
/ DEAL
/
1400 0000 DEAL1, 0
1401 7000 DEAL2, CLA
1402 1165 TAD E
1403 1127 TAD M1
1404 7650 SNA CLA
1405 5215 JMP L2080
1406 1163 TAD P
1407 1130 TAD M3
1410 7450 SNA
1411 5215 JMP L2080
1412 4514 JMS I NTIMES
1413 0014 14
1414 1467 SUB6
1415 2175 L2080, ISZ N
1416 7200 CLA
1417 1175 TAD N
1420 7041 CMA IAC
1421 1164 TAD R0
1422 7710 SPA CLA
1423 4666 JMS I RSHUF
1424 1175 TAD N
1425 1004 TAD RLOC
1426 3136 DCA JUNK2
1427 1536 TAD I JUNK2
1430 3153 DCA W
1431 1153 TAD W
1432 1002 TAD CLOC
1433 3136 DCA JUNK2
1434 1536 TAD I JUNK2
1435 3150 DCA X
1436 2157 ISZ V0
1437 1157 TAD V0
1440 1005 TAD VLOC
1441 3136 DCA JUNK2
1442 1153 TAD W
1443 3536 DCA I JUNK2
1444 1163 TAD P
1445 1131 TAD M4
1446 7440 SZA
1447 5253 JMP L2155
1450 4514 JMS I NTIMES
1451 0015 15
1452 1467 SUB6
1453 7200 L2155, CLA
1454 1163 TAD P
1455 1130 TAD M3
1456 7450 SNA
1457 5262 JMP L2180
1460 4517 L2160, JMS I PROCRD
1461 5600 JMP I DEAL1
1462 7200 L2180, CLA
1463 1150 TAD X
1464 3166 DCA H
1465 5262 JMP L2160
/
1466 1467 RSHUF, RSHUF
/
1467 0000 SUB6, 0
1470 4500 JMS I PRINT
  
```

1471 0076
1472 0000 CSP; 0
1473 5667 JMP I SUB6

/
/
/

1474 0000 DLBKJK, 0
1475 4520 JMS I PRINT

1476 0033
1477 0034
1500 0030
1501 0043
1502 0034
1503 0051
1504 0076
1505 0037
1506 0030
1507 0052

1510 0076
1511 0031 CD; CE; CA; CL; CE; CR; CSP; CH; CA; CS; CSP; CE

1512 0043
1513 0030
1514 0032
1515 0042
1516 0041
1517 0030
1520 0032
1521 0042
1522 0101
1523 0074

1524 0075
1525 0000 CL; CA; CC; CK; CJ; CA; CC; CK; CPER; CCR; CLF; C

1526 4506 JMS I DCOV
1527 5354 JMP IWIN
1530 4520 YOUB, JMS I PRINT

1531 0060
1532 0046
1533 0054
1534 0076
1535 0037
1536 0030
1537 0055
1540 0034
1541 0076
1542 0031

1543 0054
1544 0052
1545 0053
1546 0034
1547 0033
1550 0074
1551 0075

1552 0000 CY; CO; CU; CSP; CH; CA; CV; CE; CSP; CB; CU; CS; CT; CL; CE; C...: E
1553 4520 JMS I DCOV
1554 4520 IWIK, JMS I PRINT

1555 0040
1556 0076
1557 0056
1560 0040
1561 0045
1562 0074
1563 0075
1564 0000
1565 7220
1566 1154
1567 7241

CI; CSP; CX; CI; CN; CCR; CLF; C
CLA
IAD WD
CKA IAC

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1570 1155 TAD W1
1571 3155 DCA W1
1572 5515 JMP I NUDL

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/
*1600
/
/
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1600 2000 PLBKJK, 0
1601 4520 JMS I PRINT
1602 0060
1603 0046
1604 0054
1605 0076
1606 0037
1607 2030
1610 0055
1611 0034
1612 0076

```

CY; CO; CU; CSP; CH; CA; CV; CE; CSP;

```

1613 0031
1614 0043
1615 0030
1616 0032
1617 0042
1620 0041
1621 0030
1622 0032
1623 0042
1624 0074
1625 0075

```

CB; CL; CA; CC; CK; CJ; CA; CC; CK; CCR; CLF; 3

```

1626 2000 JMS I DCOV
1627 4506 JMP YOUWIN
1630 5253 DLBB, JMS I PRINT
1631 4522
1632 0033
1633 0034
1634 0030
1635 0043
1636 0034
1637 0051
1640 0076
1641 0031
1642 0054
1643 0052
1644 0053
1645 0034
1646 0033
1647 0101
1650 0076
1651 0076

```

CD; CE; CA; CL; CE; CR; CSP; CB; CU; CS; CT; CE; CD; CPER; CSP; CS;
YOUWIN, JMS I PRINT

```

1652 0060
1655 0046
1656 0054
1657 0076
1660 0050
1661 0040
1662 0045
1663 0074
1664 0076
1665 0050
1666 0040
1667 0045
1670 1155 TAD W1

```

CY; CO; CU; CSP; CV; CL; CR; CCR; CLF; 0
CL;
TAD W1

1671 3155 DCA WI
1672 5515 CSP I NUOL

/

1673 4520 BIGGET, JMS I PRINT

1674 0037

1675 0046

1676 0054

1677 0052

1700 0034

1701 0076

1702 0043

1703 0043

1704 0044

1705 0040

1706 0053

1707 0076

1710 0046

1711 0235

1712 0076

1713 0277

1714 0300

1715 4512

1716 0173

1717 4520

1720 0076

1721 0037

1722 0030

1723 0052

1724 0076

1725 0031

1726 0034

1727 0034

1730 0045

1731 0076

CH; CO; CU; CS; CE; CSP; CL; CI; CM; CI; CT; CSP; CC; CF; CSP; CDO

JMS I NPRINT

MZ

JMS I PRINT

CSP; CH; CA; CS; CSP; CB; CE; CE; CN; CSP;

1732 0034

1733 0057

1734 0032

1735 0034

1736 0034

1737 0033

1740 0034

1741 0033

1742 0101

1743 0076

1744 0076

1745 0031

1746 0034

1747 0053

1750 0076

1751 0030

1752 0036

1753 0030

1754 0040

1755 0045

1756 0101

1757 0076

1760 0076

1761 0102

1762 0300

1763 5764

CE; CX; CC; CE; CE; CD; CE; CD; CPER; CSP; CSP

CB; CE; CT; CSP; CA; CG; CA; CI; CN; CPER; CSP; CSP; CE; C

JMP I WAGN

1764 1113

/
WAGN,
/

WAGN

*2150

/
/
/

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2000 0000 DCOVI, 0
2001 4500 JMS I PRINT
2002 0030
2003 0034
2004 0030
2005 0043
2006 0034
2007 0051
2010 0100
2011 0052
2012 0076
2013 0032
2014 0046
2015 0055
2016 0034
2017 0051
2020 0034
2021 0033
2022 0076
2023 0032
2024 0030
2025 0051
2026 0033
2027 0076
2030 0040
2031 0052
2032 0076
2033 0000
2034 7200
2035 1166
2036 3150
2037 7201
2040 3146
2041 4517
2042 7200
2043 3146
2044 5600

```

CD; CE; CA; CL; CE; CR; CAPCS; CS; CSP; CC; CO; CV; CE; CR; CE; CDB

CC; CA; CR; CD; CSP; CI; CS; CSP; Z

```

CLA
TAD H
DCA X
CLA IAC
DCA DCMRK
JMS I PROCRD
CLA
DCA DCMRK
JMP I DCOVI

```

/
/

*2200

/ PRINT OUT CARD
/

```

2200 0000 PROCRD1, 0
2201 7200 CLA
2202 1150 TAD X
2203 1343 TAD M400
2204 7513 SPA
2205 5231 JMP L1200
2206 3150 DCA X
2207 4505 JMS I OTYPE
2210 7207 CLA
2211 1153 TAD P
2212 1130 TAD M3
2213 7450 SMA
2214 5600 JMP I PROCRD1
2215 4520 JMS I PRINT
2216 0076
2217 0052
2220 0047
2221 0030
2222 0033

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2225	0034	
2224	0052	
2225	0074	
2226	0075	
2227	0000	CSP; CS; CP; CA; CD; CE; CE; CCR; CLF; C
2230	5600	L1050, JMP I PRCRDI
2231	7200	L1060, CLA
2232	1150	TAD X
2233	1342	TAD M300
2234	7510	SPA
2235	5261	JMP L1120
2236	3150	DCA X
2237	4505	JMS I CTYPE
2240	7200	CLA
2241	1163	TAD P
2242	1130	TAD M3
2243	7450	SNA
2244	5600	JMP I PRCRDI
2245	4520	JMS I PRINT
2246	0076	
2247	0037	
2250	0034	
2251	0030	
2252	0051	
2253	0053	
2254	0052	
2255	0074	
2256	0075	
2257	0000	CSP; CH; CE; CA; CR; CI; CS; CCR; CLF; C
2260	5600	JMP I PRCRDI
2261	7200	L1120, CLA
2262	1150	TAD X
2263	1341	TAD M200
2264	7510	SPA
2265	5313	JMP L1180
2266	3150	DCA X
2267	4505	JMS I CTYPE
2270	7200	CLA
2271	1163	TAD P
2272	1130	TAD M3
2273	7450	SNA
2274	5600	JMP I PRCRDI
2275	4520	JMS I PRINT
2276	0076	
2277	0033	
2300	0040	
2301	0030	
2302	0044	
2303	0046	
2304	0045	
2305	0033	
2306	0052	
2307	0074	
2310	0075	
2311	0000	CSP; CD; CI; CA; CH; CE; CE; CCR; CLF; C
2312	5600	JMP I PRCRDI
2313	7200	L1180, CLA
2314	1150	TAD X
2315	1340	TAD M100
2316	3150	DCA X
2317	4520	JMS I CTYPE
2320	7200	CLA
2321	1163	TAD P
2322	1130	TAD M3
2323	7450	SNA
2324	5600	JMP I PRCRDI

2325 4523 JMS I PRINT
 2326 0276
 2327 0032
 2330 0043
 2331 0054
 2332 0031
 2333 0052
 2334 0074
 2335 0075
 2336 0000 CSP; CC; CL; CU; CB; CS; CCR; CLF; 0
 2337 5600 JMP I PROC01

/
 2340 7634 M100, -144
 2341 7470 M200, -310
 2342 7324 M300, -454
 2343 7160 M400, -620

/
 /
 *2400
 /
 /
 /

2400 0000 CTYPE1, 0
 2401 7200 CLA
 2402 1150 TAD X
 2403 1357 TAD M13
 2404 7450 SNA
 2405 5252 JMP L1360
 2406 1127 TAD M1
 2407 7450 SNA
 2410 5263 JMP L1390
 2411 1127 TAD M1
 2412 7450 SNA
 2413 5274 JMP L1420
 2414 7200 CLA
 2415 1150 TAD X
 2416 1127 TAD M1
 2417 7450 SNA
 2420 5305 JMP L1450
 2421 7001 IAC
 2422 3145 DCA A9
 2423 1163 TAD P
 2424 1130 TAD M3
 2425 7450 SNA
 2426 5242 JMP L1340
 2427 4512 JMS I NPRINT
 2430 0150 X
 2431 7200 L1300, CLA
 2432 1165 TAD E
 2433 1127 TAD M1
 2434 7440 SZA
 2435 5242 JMP L1340
 2436 1152 TAD S4
 2437 1145 TAD A9
 2440 3152 DCA S4
 2441 5600 JMP I CTYPE1
 2442 7200 L1340, CLA
 2443 1146 TAD DCMRK
 2444 7440 SZA
 2445 5600 JMP I CTYPE1
 2446 1151 TAD S3
 2447 1145 TAD A9
 2450 3151 DCA S3
 2451 5600 JMP I CTYPE1
 2452 7200 L1360, CLA
 2453 1163 TAD P

2454	1130		IAD	M3
2455	7450		SNA	
2456	5351		JMP	L1530
2457	4520		JMS	I PRINT
2460	0041			
2461	0000		CJ;0	
2462	5351		JMP	L1530
2463	7200	L1390,	CLA	
2464	1163		TAD	P
2465	1130		TAD	M3
2466	7450		SNA	
2467	5351		JMP	L1530
2470	4520		JMS	I PRINT
2471	0050			
2472	0000		CQ;0	
2473	5351		JMP	L1530
2474	7200	L1420,	CLA	
2475	1163		TAD	P
2476	1130		TAD	M3
2477	7450		SNA	
2500	5351		JMP	L1530
2501	4520		JMS	I PRINT
2502	0042			
2503	0000		CK;0	
2504	5351		JMP	L1530
2505	7200	L1450,	CLA	
2506	1163		TAD	P
2507	1130		TAD	M3
2510	7450		SNA	
2511	5315		JMP	L1470
2512	4520		JMS	I PRINT
2513	0030			
2514	0000		CA;0	
2515	7200	L1470,	CLA	
2516	1356		TAD	P13
2517	3145		DCA	A9
2520	1146		TAD	DCMRK
2521	7440		SZA	
2522	5600		JMP	I CTYPE1
2523	4514		JMS	I NTIMES
2524	0004		4	
2525	2527		SUB3	
2526	5231		JMP	L1300
2527	0000	SUE3,	0	
2530	7200		CLA	
2531	1727		TAD	I SUB3
2532	3136		DCA	JUNK2
2533	2327		ISZ	SUB3
2534	1165		TAD	E
2535	1127		TAD	M1
2536	7106		CLL	RTL
2537	1136		TAD	JUNK2 / (E-1)*4+1
2540	1005		TAD	ELOC / B(E, I)
2541	3136		DCA	JUNK2
2542	1536		TAD	I JUNK2
2543	7450		SNA	
2544	5346		JMP	L1510
2545	5727		JMP	I SUE3
2546	7201	L1510,	CLA	IAC
2547	3536		DCA	I JUNK2
2550	5231		JMP	L1300
2551	7200	L1530,	CLA	
2552	1355		TAD	P13
2553	3145		DCA	A9
2554	5231		JMP	L1300

2555	2212	P12,	12
2556	2213	P13,	13
2557	7765	M13,	-13
		/	
			*2600
		/	
		/	DEAL TO PLAYER
		/	
2602	3000	PDEAL1,	0
2601	7201	CLA	IAC
2602	3165	DCA	E
2603	4520	HITEST,	JMS I PRINT
2604	3037		
2605	2241		
2606	2033		
2607	3165		
2610	2220	CH;CI;CT;CSM;0	
2611	4523	JMS	I READC
2612	3167	DCA	H0
2613	1167	TAD	H2
2614	7341	CMA	IAC
2615	1562	TAD	C0
2616	7650	SNA	CLA
2617	5630	JMP	I PDEAL1
2620	1167	TAD	H0
2621	7341	CMA	IAC
2622	1345	TAD	CN
2623	7650	SNA	CLA
2624	5600	JMP	I PDEAL1
2625	1167	TAD	H0
2626	7341	CMA	IAC
2627	1346	TAD	C0
2630	7650	SNA	CLA
2631	5600	JMP	I PDEAL1
2632	4512	JMS	I DEAL
2633	7200	CLA	
2634	1152	TAD	S4
2635	7341	CMA	IAC
2636	1352	TAD	P25
2637	7530	SMA	
2640	5203	JMP	HITEST
2641	7200	CLA	
2642	1165	TAD	E
2643	1127	TAD	M1
2644	7105	CLL	RTL
2645	1355	TAD	BLOC
2646	3136	DCA	JUNK2 /E(E,?)
2647	4514	JMS	I NTIMES
2650	3004	4	
2651	2653	SUB4	
2652	5673	JMP	I YE
2653	2100	SUB4,	0
2654	2100	ISZ	JUNK2
2655	7277	CLA	
2656	1536	TAD	I JUNK2
2657	1127	TAD	M1
2660	7650	SNA	
2661	5204	JMP	L1700
2662	2253	ISZ	SUB4
2663	5653	JMP	I SUB4
2664	7007	L1700,	CLA
2665	1133	TAD	P2
2666	3530	DCA	I JUNK2
2667	1152	TAD	S4
2670	1353	TAD	M12
2671	5152	DCA	S4

2672	5203		JMP	HITES1
		/		
2673	1530	YE,	YOUB	
		/		
		/	DEAL	TO DEALER
		/		
2674	0000	DDEAL1,	0	
2675	7200		CLA	
2676	1133		TAD	P2
2677	3165		DCA	E
2700	1151		TAD	S3
2701	7041		CMA	IAC
2702	1351		TAD	P23
2703	7710		SPA	CLA
2704	5313		JMP	L1790
2705	4510	DDEAL2,	JMS	I DEAL
2706	7200	L1780,	CLA	
2707	1354		TAD	M21
2710	1151		TAD	S3
2711	7710		SPA	CLA
2712	5305		JMP	DDEAL2
2713	1355	L1790,	TAD	M26
2714	1151		TAD	S3
2715	7710		SPA	CLA
2716	5674		JMP	I DDEAL1
2717	1165		TAD	E
2720	1127		TAD	M1
2721	7106		CLL	RTL
2722	1005		TAD	BLOC
2723	3136		DCA	JUNK2
2724	4514		JMS	I NTIMES
2725	0004		4	
2726	2730		SUB5	
2727	5750		JMP	I DLB1
2730	0000	SUB5,	0	
2731	2136		ISZ	JUNK2
2732	7200		CLA	
2733	1536		TAD	I JUNK2
2734	1127		TAD	M1
2735	7450		CLA	
2736	5341		JMP	L1850
2737	2330		ISZ	SUB5
2740	5730		JMP	I SUB5
2741	7200	L1850,	CLA	
2742	1133		TAD	P2
2743	3536		DCA	I JUNK2
2744	1151		TAD	S3
2745	1353		TAD	M12
2746	3151		DCA	S3
2747	5306		JMP	L1780
		/		
2750	1631	DLB1,	DLB1	
2751	0020	P20,	23	
2752	0025	P25,	25	
2753	7766	M12,	-12	
2754	7757	M21,	-21	
2755	7752	M26,	-26	
		/		

A	3100
AIWIN	1366
ALOC	0003
AL740	1370
AL810	1147
AL830	1171
ANUP	0104

AVB	3617
AYWIN	1367
AZ	3141
A1	3142
A2	3143
A3	3144
A9	3145
B	3273
BIB	1173
BIBBET	1673
BLOC	3035
C	3033
CA	2030
CAPCS	0100
CD	0031
CC	0032
CCR	0074
CD	0033
CDOL	0077
CE	0034
CF	0035
CG	0036
CH	0037
CHECK	1310
CI	0040
CJ	0041
CK	0042
CL	0043
CLF	0075
CLOC	0032
CY	0044
CM	0045
CNTR	3545
CO	0046
COLLECT	2636
CP	0047
CPER	3121
CQ	0050
CQ1	0102
CR	0051
CE	0052
CSF	0076
CT	0053
CTR2	3544
CTYPE	3105
CTYPE1	2400
CV	0054
CV	0055
CW	0056
CX	0057
CY	0058
CZ	0061
CI	0062
CI	0063
CI	0064
CI	0065
CI	0066
CI	0067
CI	0070
CI	0071
CI	0072
CI	0073
DEKJK	1363
DCMRK	3146
DCOV	3136
DCOV1	2330

DDEAL	0107
DDEAL1	2674
DDEAL2	2705
DEAL	1113
DEALL	3111
DEAL1	1400
DEAL2	1401
DIG	3547
DIGAD	3546
DLBB	1631
DLBKJK	1474
DLBI	2750
E	0165
H	0166
HITEST	2603
H0	0167
IWIN	1554
J	0170
JUNK	0134
JUNK1	0135
JUNK2	0136
JUNK3	0137
JUNK4	0138
JUNK5	0140
K9	0147
L1050	2230
L1060	2251
L1120	2261
L1180	2313
L1300	2431
L1340	2442
L1360	2452
L1390	2463
L1420	2474
L1450	2505
L1470	2515
L1510	2546
L1530	2551
L1700	2664
L1780	2736
L1790	2713
L1850	2741
L2080	1415
L2155	1453
L2160	1460
L2180	1462
L720	1125
L740	1134
L810	1200
L830	1235
L940	1262
L950	1301
M	0161
MCR	3133
MLOCP1	0432
MLOCP2	0423
MM	0162
MO	0173
M1	0127
M100	2340
M12	2753
M13	2557
M15	2526
M200	2341
M21	0154
M5	1365

M2S	2755
M260	3501
M3	0130
M303	2342
M4	0131
M403	2343
N	0175
NEGMON	1042
NNN	3024
NPLOOP	3512
NPLP2	3530
NPRINT	0112
NPRT1	3502
NREAD	0113
NREAD1	3452
NRLLOOP	3455
NRXIT	3473
NTIMES	0114
NTIMSL	3612
NTIMSI	3600
NUDEAL	1000
NUDL	0115
NUP	1223
NUSHUF	0447
P	0163
PAY	1167
PAYEND	0634
PAYOUT	0600
PBKJK	1364
PDEAL	0116
PDEAL1	2600
PLBKJK	1600
PRCRD	0117
PRCRD1	2200
PRINT	0120
PRINT1	3400
PRLOOP	3405
PRT	0121
PRT1	3417
PI	0132
P12	2555
P13	2556
P144	0505
P15	0503
P2	0133
P20	2751
P25	2752
P260	3543
P3777	3574
P64	0504
Q	0174
QC	0160
R	3200
RAND	0122
RAND1	3557
RDSHUF	0400
READ	0124
READC	0123
READC1	3440
READSH	0366
READ1	3424
RESHUF	0457
RLOC	0004
RSHUF	1466
R0	0164
SHUFFL	0125

SHUFL1	3626
SHUFL2	3636
START	4126
START1	3200
SUB1	1150
SUB2	1214
SUB3	2527
SUB4	2653
SUB5	2730
SUB6	1467
33	3151
34	3152
T	3156
V	3300
VLOC	0006
VØ	0157
W	3153
WAG	1061
WAGIN	1110
WAGN	1764
WE	0154
WI	0155
X	0150
Y	3654
YE	2673
YOUE	1532
YOUWIN	1653
ZZ1	3679