



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 "NO".

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 \$5 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

/

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

/

0104	1223	ANUP,	NUP
0105	2433	CTYPE,	CTYPE1
0106	0307	DCOV,	DCOV1
0107	0374	DDEAL,	DDEAL1
0110	1400	DEAL,	DEAL1
0111	1401	DEALL,	DEAL2
0112	3502	NPRI1,	NPRI1
0113	3450	NREAD,	NREAD1
0114	3500	NTIMS,	NTIMS1
0115	1300	NUDL,	NUDEAL
0116	2600	PDEAL,	PDEAL1
0117	2200	PROCD,	PROCD1
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

0151	0000	S3,	0	/ RANDOM NUMBER
0152	0000	S4,	0	/ DEALER'S CARD TOTAL
0153	0000	W,	0	/ PLAYER'S CARD TOTAL
0154	0000	W3,	0	/ CURRENT CARD (FROM DECK R)

0155	0000	W1,	0
0156	0000	I,	0

0157	0000	V0,	0	/ CURRENT WAGER
0158	0000	30,	0	/ PLAYER'S WINNINGS

0159	0000	30,	0	/ 0 INITIALLY, 1 LATER
0161	0000	M,	0	/ INDEXES V

0162	0000	MM,	0	/ =1 AFTER FIRST SHUFFLE
0163	0000	P,	0	

0164	0000	RG,	0
0165	0000	E,	0

0166	0000	H,	0	/ # OF CARDS IN DECK R
0167	0000	H0,	0	/ 1 FOR DEALER, 2 FOR PLAYER

0168	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	

0176	0000		0
0177	0000		0

0178	0000		0
0179	0000		0

0180	0000		0
0181	0000		0

0002	3000	CLOC,	C	*2
0003	3100	ALOC,	A	

0004	3200	RLOC,	R	
0005	3270	BLOC,	B	

0006	3300	VLOC,	V	
0007	0000			

0008	0000			
0009	0000			

0010	0000	C,	0	*3000
0011	0000		0	

0012	0000	A,	0	/ CARD DESCRIPTIONS
0013	0000		0	*3100

0014	0000		0	/ USED CARDS
0015	0000		0	*3200

```

3270 0000 R, 0 / SHUFFLE DECK
*3270
3270 0000 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 M1
3404 3010 DCA 10
3405 1410 PRLOOP, TAD I 10
3406 7450 SNA
3407 5410 JMP I 10
3410 3134 DCA JUNK
3411 6041 TSF
3412 5211 JMP .-1
3413 1534 TAD I JUNK
3414 6046 TLS
3415 7200 CLA
3416 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 6051 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 0074
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 WRL000, JMS I READ
3456 3135 DCA JUNK1

```


3457	1135	TAD	JUNK1
3460	1133	TAD	MCR
3461	7650	SNA	CLA
3462	5273	JMP	NRXIT
3463	1137	TAD	JUNK3
3464	7425	MQL	MUY
3465	3012	I2	
3466	7531	MQA	
3467	1135	TAD	JUNK1
3470	1321	TAD	M260
3471	3137	DCA	JUNK3
3472	5255	JMP	NRLOOP
3473	4230	JMS	PRINT1
3474	0075		
3475	0000	CLF;3	
3476	7200	CLA	
3477	1137	TAD	JUNK3
3530	5652	JMP	I NREAD1
/			
3501	7520	M260,	-260
/			
/			
3522	0000	NPRT1,	0
3523	7200	CLA	
3524	3345	DCA	CNTR
3525	1346	TAD	DIGAD
3526	3011	DCA	I1
3527	1732	TAD	I NPRT1
3528	3136	DCA	JUNK2
3529	1536	TAD	I JUNK2
3532	7100	NPLOOP,	CLL
3533	7427	MQL	DVI
3534	0012	I2	
3535	3411	DCA	I I1
3536	2345	ISZ	CNTR
3537	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	I1
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 / W
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 NTIMS1
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 W
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
/

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*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 0040
0233 0045
0234 0036
0235 0076 CI; CS; CSP; CW; CA; CT; CB; CH; CI; CW; CG; CSP
0236 0060
0237 0046

```

0240 0054
0241 0074
0242 0075
0243 0075

CY; CO; CU; CCR; 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; CW; CY; CSP; CA; CM; CG; CU; CM; CI; 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; CG; CSP; CW; CA; CG; CE; CR; CSP; CE; CW; CG; 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

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

0323 0076
0324 0053
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
 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
 0365 5766

CT; CI; CM; CE; CS; CSP; CS; CH; CO; CU; CL; CD; CSP; CI; CSP

CS; CH; CU; CF; CF; CL; CE; CSP; CT; CH; CE; CSP; CD; CE; CC; CK; CM
 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 NDSHUF

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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
/
/ *000
/
/ END
/
0600 7200     PAYOUT, CLA
0601 1155     TAD W1
0602 7450     SNA
0603 5234     JMP PAYEND
0604 7500     SNA
0605 5236     JMP COLECT
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

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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	0000		CCR; CLF; 0
0634	7400	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	0000		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	0000		CC; CC; CR; CR; CO; CR; CA; CT; CI; CO; CN; CCR; CLF; 0
0723	7400		HLT
0724	5526		JMP I START

/

*1003

/
/ 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

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

1015 7200

CLA

1016 1155

TAD WI

1017 7510

SPA

1020 7041

CMA IAC

1021 3137

DCA JUNK3

1022 4512

JMS I NPRINT

1023 0137

JUNK3

1024 7200

CLA

1025 1155 TAD

WI

1026 7510

SPA

1027 5242

JMP NEGMON

1030 4520

JMS I PRINT

1031 0076

1032 0030

1033 0037

1034 0034

1035 0030

1036 0033

1037 0101

1040 0000

CSP; CA; CH; CE; CA; CD; CPER; Ø

1041 5261

JMP WAG

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

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

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

//

1076	0054		
1077	0051		
1100	0076		
1101	0056		
1102	0030		CSP; CSP; CW; CH; CA; CT; CSP; C1; CS; LCP; C2; C3; C4; C5; CSP; C6
1103	0036		
1104	0034		
1105	0051		
1106	0102		
1107	0000		CG; CE; CB; CQM; C
1110	4513	WAGIN,	JMS I WREAD
1111	7450		SNA
1112	5767		JMP I PAY
1113	3154		DCA W0
1114	1156		TAD T
1115	7650		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 EIG
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 W0
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
1162	3136		DCA JUNK2
1163	1537		TAD I JUNK3
1164	3536		DCA I JUNK2
1165	2300		ISZ SUB1
1166	5750		JMP I SUB1
		/	
1167	0500	PAY,	PAYOUT
1170	1073	EIG,	EIGENT
1171	1200	AL830,	L830
		/	
		/	

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	0012		I3	
1212	1214		SUB2	
1213	5223		JMP	NUP
1214	0230	SUB2,	Ø	
1215	1614		TAD	I SUB2
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	7010		RAR	
1226	7200		CLA	
1227	7034		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	4520		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; CH; CO; CW; CSP; CSP; CSP; CSP; CSP; CSP; CSP; CSP; Ø	
1261	5331		JMP	L950
1262	4520	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 P2
1324	3165		DCA P
1325	4506		JMS I DCCV
1326	4507		JMS I DDEAL

/
/ 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 0030
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; CM; C; :

1357 0074
1360 0075
1361 0000
1362 5770

CCR; CLF; C
JMP I AL740

1363	1474	DBKJK,	DLBKJK
1364	1600	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 7200 DEAL2, CLA
1402 1165 TAD E
1403 1127 TAD M1
1404 7650 SNA CLA
1405 5215 JMP L2080
1406 1163 TAD P
1407 1133 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 1006 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 1133 TAD M3
1456 7450 SNA
1457 5262 JMP L2180
1460 4517 L2160, JMS I PRCRD
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

CD; CE; CA; CL; CE; CR; CSP; CH; CA; CS; CSP; CE

1510 0076
1511 0031
1512 0043
1513 0030
1514 0032
1515 0042
1516 0041
1517 0030
1520 0032
1521 0042
1522 0101
1523 0074

CL; CA; CC; CK; CJ; CA; CC; CK; CPER; CCR; CLF; 0

1524 0075
1525 0000 JMS I DCOV
1526 4506 JMP IWIN
1527 5354 JMS I PRINT
1530 4520 YOUB,

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

CY; CO; CU; CSP; CH; CA; CV; CE; CSP; CB; CU; CS; CT; CL; CC; C...: E

1552 0000 JMS I DCOV
1553 4520 IWIN, JMS I PRINT

1555 0040
1556 0076
1557 0056
1560 0040
1561 0045
1562 0074
1563 0075

CI; CSP; CX; CI; CN; CCR; CLF; 0

1564 0000 CLA
1565 7220 IAD WD
1566 1154 CKA IAC
1567 7241

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

/
*1600
/
/
/

1600 0000 PLBKJK, 0
1601 4520 JMS I PRINT
1602 0060
1603 0046
1604 0054
1605 0076
1606 0037
1607 0030
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 0000 JMS I DCOV
1627 4506 JMP YOUWIN
1630 5253 DLBB, JMS I PRINT
1631 4520

1632 0033
1633 0034
1634 0030
1635 0043
1636 0054
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
1653 0046
1656 0054
1657 0076
1660 0050
1661 0040
1662 0045
1663 0074
1664 0070

CY; CO; CU; CSP; CV; CL; CK; CCR; CLF; 0

1665 0070
1666 1100 TAD W1
1670 1100 TAD W1

1671 3155 DCA WI
1672 0515 CSP I WUDL

/
/
/

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 0302
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; CO; CF; CSP; CDOZ
JMS I NPRINT
MØ
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

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/

*2133

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/
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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	CD; CE; CA; CL; CE; CR; CAPCS; CS; CSP; CC; CO; CV; CE; CR; CE; CDB
2023	0032	
2024	0030	
2025	0051	
2026	0033	
2027	0076	
2030	0040	
2031	0052	
2032	0076	
2033	0000	CC; CA; CR; CD; CSP; CI; CS; CSP; Z
2034	7200	CLA
2035	1166	TAD H
2036	3150	DCA X
2037	7201	CLA IAC
2040	3146	DCA DCMRK
2041	4517	JMS I PROCB
2042	7200	CLA
2043	3146	DCA DCMRK
2044	5600	JMF I DCOVI

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/

*2233

/ PRINT OUT CARD
/

2200	0000	PRCRD1, 0
2201	7200	CLA
2202	1150	TAD X
2203	1343	TAD M400
2204	7510	SRA
2205	5231	JMP L1250
2206	3150	DCA X
2207	4505	JMS I CTYPE
2210	7207	CLA
2211	1163	TAD P
2212	1130	TAD M3
2213	7450	SMA
2214	5600	JMP I PRCRD1
2215	4520	JMS I PRINT
2216	0076	
2217	0052	
2220	0047	
2201	0030	
2222	0033	

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 PRCRD1
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 PRCRD1
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; CT; CS; CCR; CLF; C
2260	5600	L1120, JMP I PRCRD1
2261	7200	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 PRCRD1
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	L1180, JMP I PRCRD1
2313	7200	CLA
2314	1150	TAD X
2315	1340	TAD M100
2316	3150	DCA X
2317	4525	JMS I CTYPE
2320	7200	CLA
2321	1163	TAD P
2322	1130	TAD M3
2323	7450	SNA
2324	5600	JMP I PRCRD1

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 PRORD1

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

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 /
 *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		TAD	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 SUB3	
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	

/

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2559 2212 P12, 12
2558 2213 P13, 13
2557 7755 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 2041
2606 3033
2607 3165
2610 2200 CH; CI; CT; CCM; 0
2611 4523 JMS I READC
2612 3167 DCA H0
2613 1167 TAD H3
2614 7341 CMA IAC
2615 1362 TAD C0
2616 7550 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 7550 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 SNA
2640 5203 JMP HITEST
2641 7200 CLA
2642 1165 TAD E
2643 1127 TAD M1
2644 7100 CLL RTL
2645 1350 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 3165 SUB4, 3
2654 2100 ISZ JUNK2
2655 7277 CLA
2656 1536 TAD I JUNK2
2657 1127 TAD M1
2660 7450 SNA
2661 5804 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

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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

ARD	3817
AYWIN	1367
A2	3141
A1	3142
A2	3143
A3	3144
A9	3145
B	3270
BIG	1170
BIGGET	1673
BLOC	0035
C	3020
CA	2030
CAPCS	0100
CB	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	0002
CM	0044
CN	0045
CNTR	3545
CO	0046
COLECT	2636
CP	0047
CPER	3121
CQ	0050
CQ.1	0102
CR	0051
CS	0052
CSF	0076
CT	0053
CTR2	3544
CTYPE	3105
CTYPE1	2400
CV	0054
CV	0055
CW	0056
CX	0057
CY	0060
CZ	0061
CA	0062
CA	0063
CA	0064
CA	0065
CA	0066
CA	0067
CA	0070
CA	0071
CA	0072
CA	0073
DEKJR	1500
DCMRK	3140
DCOV	3106
DCOV1	2000

DDEAL	0107
DDEAL1	2674
DDEAL2	2705
DEAL	1110
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	3103
MLOCP1	0432
MLOCP2	0423
MM	0162
M0	0173
M1	0127
M100	2340
M12	2753
M13	2557
M15	2526
M200	2341
M21	0104
M5	1365

M2S	2755
M2GJ	3521
M3	3132
M32J	2342
M4	2131
M42J	2343
N	2175
NEGMON	1242
NNN	3524
NPLOOP	3512
NPLOP	3532
NPRINT	2112
NPRT1	3522
NREAD	2113
NREAD1	3452
NRLOOP	3455
NRXIT	3473
NTIMES	2114
NTIMSL	3612
NTIMSI	3622
NUDEAL	1222
NUDL	2115
NUP	1223
NUSHUF	2447
P	2163
PAY	1167
PAYEND	2634
PAYOUT	2522
PBKJK	1364
PDEAL	2116
PDEAL1	2622
PLBKJK	1622
PRCRD	2117
PRCRD1	2222
PRINT	2122
PRINT1	3422
PRLOOP	3425
PRI	2121
PRT1	3417
PI	2132
PI2	2555
PI3	2556
PI44	2525
PI5	2523
P2	2133
P22	2721
P25	2722
P262	3543
P3777	3574
P64	2524
Q	2174
QC	2163
R	3222
RAND	2122
RAND1	3557
RDSHUF	2422
READ	2124
READC	2123
READC1	3442
READSH	2366
READ1	3424
RESHUF	2457
RLOC	2224
RSHUF	1466
R2	2164
SHUFFL	2125

SHUFL1	3626
SHUFL2	3636
START	1126
START1	1200
SUB1	1150
SUB2	1214
SUB3	2527
SUB4	2653
SUB5	2730
SUB6	1467
S3	2151
S4	2152
T	2156
V	3303
VLOC	0006
VØ	0157
W	2153
WAG	1061
WAGIN	1110
WAGN	1764
WE	0154
WI	0155
X	0150
Y	3654
YE	2673
YQUE	1532
YOUNIA	1653
ZZ1	3679