

IBM JG-15-1

IBM System/360 Assembler Coding Form

PROGRAM LORAN C		PUNCHING INSTRUCTIONS	GRAPHIC								PAGE 17 OF CARD ELECTRO NUMBER
PROGRAMMER SE-2	DATE		PUNCH								

STATEMENT																				Comments										Identification-Sequence	
1	Name	8	10	Operation	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80												
19	05	19	75	05000			3303.000	-7810.259				885																			
19	05	19	75	0530			3259.497	-7810.853				886																			
19	05	19	75	0600			3255.900	-7812.100				887																			
19	05	19	75	0630			3252.284	-7813.000				888																			
19	05	19	75	0700			3248.788	-7814.000				889																			
19	05	19	75	0731			3244.500	-7815.359				890																			
19	05	19	75	0800			3241.478	-7816.713				891																			
19	05	19	75	0830			3237.776	-7817.833				892																			
19	05	19	75	0900			3234.000	-7818.785				893																			
19	05	19	75	0930			3230.246	-7820.156				894																			
19	05	19	75	1000			3226.400	-7821.800				895																			
19	05	19	75	1030			3223.045	-7824.956				896																			
19	05	19	75	1100			3219.050	-7824.103				897																			
19	05	19	75	1130			3215.800	-7824.532				898																			
19	05	19	75	1200			3212.600	-7825.400				899																			
19	05	19	75	1230			3208.500	-7822.712				900																			
19	05	19	75	1300			3205.435	-7820.095				901																			
19	05	19	75	1330			3202.403	-7819.000				902																			
19	05	19	75	1400			3159.500	-7816.300				903																			
19	05	19	75	1430			3156.300	-7815.300				904																			
19	05	19	75	1500			3154.545	-7816.824				905																			
19	05	19	75	1530			3152.800	-7817.800				906																			
19	05	19	75	1600			3151.412	-7818.556				907																			
19	05	19	75	1620			3154.600	-7819.500				908																			

Transit to SE-2 \*

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PROGRAM		LORAN - C		PUNCHING INSTRUCTIONS		GRAPHIC										PAGE 18 OF		
PROGRAMMER		SE-2		DATE		PUNCH										CARD ELECTRO NUMBER		
STATEMENT																	Identification-Sequence	
Name		Operation		Operand										Comments				
1	8	15	22	29	36	43	50	57	64	71	78	85	92	99	106	113		
19	05	1975	1630		3154.813	-7819.565				909								
19	05	1975	1640		3154.845	-7820.010				910								
19	05	1975	1700		3155.115	-7820.080				911								
19	05	1975	1710		3155.359	-7821.000				912								
19	05	1975	1720		3155.500	-7821.456				913								
19	05	1975	1731		3155.913	-7822.000				914								
19	05	1975	1742		3156.100	-7822.257				915								
19	05	1975	1751		3156.400	-7822.552				916								
19	05	1975	1800		3156.800	-7822.952				917								
19	05	1975	1810		3157.111	-7823.100				918								
19	05	1975	1820		3157.603	-7823.500				919								
19	05	1975	1830		3157.995	-7823.853				920								
19	05	1975	1840		3158.300	-7824.300				921								
19	05	1975	1850		3158.742	-7824.500				922								
19	05	1975	1900		3159.255	-7824.800				923								
19	05	1975	1910		3159.756	-7825.000				924								
19	05	1975	1920		3159.949	-7825.412				925								
19	05	1975	1930		3200.025	-7825.811				926								
19	05	1975	1940		3200.044	-7826.359				927								
19	05	1975	1950		3200.051	-7826.795				928								
19	05	1975	2000		3201.100	-7827.053				929								
19	05	1975	2010		3201.768	-7827.600				930								
19	05	1975	2020		3202.100	-7828.113				931								
19	05	1975	2030		3202.456	-7828.500				932								

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## IBM System/360 Assembler Coding Form

PROGRAM	LORAN-C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 19 OF
PROGRAMMER	SE-2	DATE	PUNCH									CARD ELECTRO NUMBER

STATEMENT																	Identification-Sequence									
Name		Operation				Operand											Comments									
1	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80									
19	05	1975	2040			3202.900	-7828.912			933																
19	05	1975	2050			3203.278	-7829.500			934																
19	05	1975	2100			3203.600	-7830.000			935																
19	05	1975	2112			3203.900	-7830.072			936																
19	05	1975	2120			3204.344	-7831.445			937																
19	05	1975	2130			3204.552	-7831.924			938																
19	05	1975	2140			3204.956	-7832.596			939																
19	05	1975	2150			3205.000	-7833.258			940																
19	05	1975	2200			3205.100	-7833.998			941																
19	05	1975	2210			3205.800	-7834.586			942																
19	05	1975	2220			3206.514	-7835.200			943																
19	05	1975	2230			3206.600	-7835.952			944																
19	05	1975	2251			3207.852	-7836.845			945																
19	05	1975	2301			3208.459	-7837.296			946																
19	05	1975	2310			3209.000	-7837.800			947																
19	05	1975	2320			3209.459	-7838.300			948																
19	05	1975	2330			3210.235	-7838.800			949																
19	05	1975	2343			3210.095	-7839.301			950																
19	05	1975	2350			3211.713	-7839.857			951																
20	05	1975	0001			3212.000	-7840.034			952																
20	05	1975	0010			3212.711	-7840.060			953																
20	05	1975	0020			3213.050	-7841.200			954																
20	05	1975	0030			3214.000	-7841.910			955																
20	05	1975	0040			3214.850	-7842.557			956																

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PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 20 OF											
PROGRAMMER SE-2		DATE		PUNCH		CARD ELECTRO NUMBER											
Name		Operation		Operand		STATEMENT		Comments		Identification-Sequence							
1	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80
20	05	19	75	00	55		32	15	61	1	-78	43	39	5		957	
20	0	19	75	01	10		32	16	11	5	-78	44	00	0		958	
20	0	19	75	01	20		32	16	75	3	-78	44	76	7		959	
20	0	19	75	01	30		32	17	50	0	-78	45	49	3		960	
20	0	19	75	01	40		32	18	00	0	-78	45	85	3		961	
20	0	19	75	01	50		32	18	63	5	-78	46	55	7		962	
20	0	19	75	02	00		32	19	20	0	-78	47	35	3		963	
20	0	19	75	02	10		32	19	61	2	-78	47	78	7		964	
20	0	19	75	02	20		32	20	03	0	-78	48	40	0		965	
20	0	19	75	02	30		32	20	06	3	-78	49	01	5		966	
20	0	19	75	02	40		32	21	30	0	-78	49	80	0		967	
20	0	19	75	02	50		32	21	71	5	-78	50	04	8		968	
20	0	19	75	03	00		32	22	31	1	-78	51	10	0		969	
20	0	19	75	03	10		32	22	50	0	-78	51	71	3		970	
20	0	19	75	03	20		32	23	00	0	-78	52	60	0		971	
20	0	19	75	03	30		32	23	40	0	-78	52	90	0		972	
20	0	19	75	03	40		32	23	80	0	-78	53	35	8		973	
20	0	19	75	03	50		32	24	31	3	-78	54	15	6		974	
20	0	19	75	04	00		32	24	90	3	-78	54	90	1		975	
20	0	19	75	04	20		32	26	00	0	-78	55	80	0		976	
20	0	19	75	04	30		32	26	51	1	-78	56	10	3		977	
20	0	19	75	04	40		32	27	05	5	-78	56	30	3		978	
20	0	19	75	04	50		32	27	50	0	-78	57	00	0		979	
20	0	19	75	05	00		32	28	05	6	-78	57	56	0		980	

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PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 21 OF											
PROGRAMMER SE-2		DATE		PUNCH		CARD ELECTRO NUMBER											
Name		Operation		Operand		Comments		Identification-Sequence									
1	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80
20	05	1975	0510		3228.600	-7858.000			981								
20	05	1975	0520		3229.300	-7858.412			982								
20	05	1975	0530		3229.800	-7858.713			983								
20	05	1975	0540		3230.358	-7859.300			984								
20	05	1975	0550		3230.093	-7859.810			985								
20	05	1975	0600		3231.400	-7900.031			986								
20	05	1975	0612		3232.103	-7900.083			987								
20	05	1975	0623		3232.600	-7901.414			988								
20	05	1975	0630		3232.956	-7901.785			989								
20	05	1975	0640		3233.400	-7902.400			990								
20	05	1975	0650		3233.900	-7902.845			991								
20	05	1975	0700		3234.357	-7903.400			992								
20	05	1975	0712		3234.943	-7904.000			993								
20	05	1975	0720		3235.300	-7904.456			994								
20	05	1975	0730		3236.800	-7904.622			995								
20	05	1975	0740		3236.200	-7905.100			996								
20	05	1975	0750		3236.656	-7905.832			997								
20	05	1975	0800		3237.053	-7906.400			998								
20	05	1975	0810		3237.400	-7906.800			999								
20	05	1975	0820		3237.800	-7907.500			1000								
20	05	1975	0830		3238.111	-7908.000			1001								
20	05	1975	0840		3238.457	-7908.457			1002								
20	05	1975	0850		3239.100	-7908.845			1003								
20	05	1975	0900		3239.413	-7909.395			1004	*							

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PROGRAM	LORAN - C	PUNCHING INSTRUCTIONS	GRAPHIC															PAGE 22 OF
PROGRAMMER	SE-2	DATE	PUNCH															CARD ELECTRO NUMBER

PROGRAM			DATE			STATEMENT										Comments										Identification-Sequence	
1	Name	8	10	Operation	14	16	20	25	30	35	40	45	50	55	60	65	71	73	8								
20	05	1975	0920				3240	335	-7910	400			1005														
20	05	1975	0930				3240	632	-7911	000			1006														
20	05	1975	0940				3240	952	-7911	500			1007														
20	05	1975	0950				3241	334	-7912	200			1008														
20	05	1975	1000				3241	800	-7912	559			1009														
20	05	1975	1020				3242	000	-7913	300			1010														
20	05	1975	1030				3242	495	-7913	856			1011														
20	05	1975	1045				3243	000	-7914	500			1012														
20	05	1975	1051				3243	400	-7914	994			1013														
20	05	1975	1056				3243	703	-7915	100			1014														
20	05	1975	1100				3243	843	-7915	332			1015														
20	05	1975	1110				3244	000	-7915	712			1016														
20	05	1975	1115				3244	323	-7915	900			1017														
20	05	1975	1130				3244	000	-7916	700			1018														
20	05	1975	1200				3242	996	-7917	778			1019														
20	05	1975	1230				3238	554	-7919	300			1020														
20	05	1975	1300				3234	943	-7921	739			1021														
20	05	1975	1330				3231	300	-7923	468			1022														
20	05	1975	1400				3233	200	-7926	457			1023														
20	05	1975	1430				3226	100	-7930	295			1024														
20	05	1975	1500				3224	300	-7934	600			1025														
20	05	1975	1530				3222	823	-7939	612			1026														
20	05	1975	1600				3220	765	-7943	425			1027														
20	05	1975	1630				3221	500	-7948	200			1028														

END SE-2

20/5/75

TRANSIT TO

SE-3









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IBM System/360 Assembler Coding Form

PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 25 OF											
PROGRAMMER		DATE		PUNCH		CARD ELECTRO NUMBER											
Name		Operation		Operand		Comments		Identification-Sequence									
1	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80
21	05	1975	0130		3138.200	-7919.500			1077								
21	05	1975	0140		3157.700	-7919.800			1078								
21	05	1975	0150		3157.278	-7918.300			1079								
21	05	1975	0200		3136.900	-7917.605			1080								
21	05	1975	0210		3136.469	-7917.279			1081								
21	05	1975	0220		3136.000	-7916.800			1082								
21	05	1975	0230		3135.700	-7916.100			1083								
21	05	1975	0241		3135.057	-7915.557			1084								
21	05	1975	0250		3134.576	-7914.954			1085								
21	05	1975	0300		3134.269	-7914.500			1086								
21	05	1975	0310		3133.589	-7914.000			1087								
21	05	1975	0320		3133.213	-7913.457			1088								
21	05	1975	0330		3132.845	-7912.800			1089								
21	05	1975	0340		3132.500	-7912.113			1090								
21	05	1975	0350		3132.100	-7911.557			1091								
21	05	1975	0400		3131.703	-7911.000			1092								
21	05	1975	0410		3131.411	-7910.500			1093								
21	05	1975	0420		3131.256	-7910.065			1094								
21	05	1975	0430		3130.800	-7909.200			1095								
21	05	1975	0440		3130.600	-7908.800			1096								
21	05	1975	0450		3130.264	-7908.053			1097								
21	05	1975	0500		3130.200	-7907.300			1098								
21	05	1975	0530		3148.946	-7906.100			1099								
21	05	1975	0600		3148.700	-7907.500			1100								

END SE3

TRANSIT TO  
SE-4

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PROGRAM <u>LORAN C</u>		PUNCHING INSTRUCTIONS	GRAPHIC									PAGE <u>26</u> OF
PROGRAMMER <u>TRANSIT TO SE-4</u>		DATE	PUNCH									CARD ELECTRO NUMBER

STATEMENT																	Identification- Sequence									
Name			Operation		Operand												Comments									
1	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80									
21	05	1975	0624		2149.056	-7909.200			1101																	
21	05	1975	0700		3150.100	-7912.100			1102																	
21	05	1975	0740		3150.313	-7915.913			1103																	
21	05	1975	0800		3150.200	-7917.989			1104																	
21	05	1975	0820		3150.405	-7920.300			1105																	
21	05	1975	0840		3150.300	-7922.600			1106																	
21	05	1975	0900		3150.305	-7924.937			1107																	
21	05	1975	0920		3150.600	-7927.052			1108																	
21	05	1975	0942		3149.344	-7929.300			1109																	
21	05	1975	1000		3148.812	-7930.043			1110																	
21	05	1975	1100		3147.911	-7931.258			1111																	
21	05	1975	1130		3146.056	-7931.600			1112																	
21	05	1975	1200		3144.413	-7931.600			1113																	
21	05	1975	1230		3142.957	-7931.600			1114																	
21	05	1975	1300		3141.915	-7931.800			1115																	
21	05	1975	1330		3141.400	-7933.300			1116																	
21	05	1975	1400		3140.923	-7935.000			1117																	
21	05	1975	1430		3140.100	-7937.900			1118																	
21	05	1975	1500		3139.800	-7939.711			1119																	
21	05	1975	1530		3139.157	-7942.324			1120																	
21	05	1975	1600		3138.358	-7944.769			1121																	
21	05	1975	1635		3137.584	-7948.114			1122																	
21	05	1975	1700		3137.400	-7949.943			1123																	
21	05	1975	1730		3137.053	-7952.558			1124																	

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PROGRAM	LORAN-C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 27 OF
PROGRAMMER	SEA	DATE	PUNCH									CARD ELECTRO NUMBER

STATEMENT																		Comments												Identification-Sequence	
1	Name	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80													
21	05	1975	1800			3137.000	-7955.300			1125																					
21	05	1975	1900			3137.211	-8000.097			1126																					
21	05	1975	2000			3137.215	-8006.903			1127																					
21	05	1975	2100			3137.500	-8011.800			1128																					
21	05	1975	2130			3137.768	-8013.968			1129																					
21	05	1975	2200			3137.750	-8016.400			1130																					
22	05	1975	0000			3138.289	-8016.856			1131																					
22	05	1975	0100			3138.400	-8011.158			1132																					
22	05	1975	0130			3138.458	-8008.400			1133																					
22	05	1975	0200			3138.900	-8005.900			1134																					
22	05	1975	0230			3138.605	-8003.259			1135																					
22	05	1975	0300			3138.857	-8000.087			1136																					
22	05	1975	0330			3139.265	-7958.367			1137																					
22	05	1975	0400			3139.477	-7956.053			1138																					
22	05	1975	0433			3139.479	-7953.700			1139																					
22	05	1975	0503			3139.784	-7951.567			1140																					
22	05	1975	0613			3140.500	-7947.500			1141																					
22	05	1975	0803			3140.859	-7951.268			1142																					
22	05	1975	0834			3140.823	-7955.900			1143																					
22	05	1975	0901			3140.756	-8000.012			1144																					
22	05	1975	1000			3140.400	-8008.900			1145																					
22	05	1975	1030			3140.000	-8013.359			1146																					
22	05	1975	1100			3139.800	-8017.759			1147																					
22	05	1975	2100			3134.215	-8038.400			1148																					

END  
TRANSMIT  
Sole  
operator  
BEGIN  
SEA 4

PROGRAM		LORAN - C		PUNCHING INSTRUCTIONS		GRAPHIC								PAGE 28 OF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
PROGRAMMER		SE-4		DATE		PUNCH								CARD ELECTRO NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
STATEMENT																Identification-Sequence																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<table><tr><th colspan="2">Name</th><th colspan="2">Operation</th><th colspan="2">Operand</th><th colspan="2"></th><th colspan="2"></th><th colspan="2">Comments</th><th colspan="2"></th><th colspan="2"></th><th 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-8017.969</td><td></td><td></td><td>1172</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																		Name		Operation		Operand						Comments								1	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	8	22	05	1975	2120		3134.216	-8036.300			1149									22	05	1975	2130		3133.812	-8036.800			1150									22	05	1975	2140		3133.613	-8035.814			1151									22	05	1975	2150		3133.415	-8035.900			1152									22	05	1975	2200		3133.345	-8035.269			1153									22	05	1975	2202		3132.065	-8034.969			1154									22	05	1975	2210		3132.800	-8034.200			1155									22	05	1975	2220		3132.500	-8033.500			1156									22	05	1975	2230		3131.295	-8032.457			1157									22	05	1975	2240		3131.800	-8031.495			1158									22	05	1975	2250		3131.300	-8030.957			1159									22	05	1975	2300		3131.005	-8030.000			1160									22	05	1975	2310		3130.611	-8029.200			1161									22	05	1975	2320		3130.206	-8028.159			1162									22	05	1975	2330		3129.300	-8027.054			1163									22	05	1975	2340		3128.835	-8026.200			1164									22	05	1975	2350		3128.357	-8025.151			1165									23	05	1975	0000		3127.800	-8024.213			1166									23	05	1975	0020		3126.856	-8022.400			1167									23	05	1975	0030		3126.400	-8021.468			1168									23	05	1975	0040		3126.000	-8020.700			1169									23	05	1975	0050		3126.559	-8019.778			1170									23	05	1975	0100		3125.211	-8018.992			1171									23	05	1975	0110		3124.769	-8017.969			1172								
Name		Operation		Operand						Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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22	05	1975	2120		3134.216	-8036.300			1149																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2130		3133.812	-8036.800			1150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2140		3133.613	-8035.814			1151																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2150		3133.415	-8035.900			1152																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2200		3133.345	-8035.269			1153																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2202		3132.065	-8034.969			1154																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2210		3132.800	-8034.200			1155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2220		3132.500	-8033.500			1156																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2230		3131.295	-8032.457			1157																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2240		3131.800	-8031.495			1158																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2250		3131.300	-8030.957			1159																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2300		3131.005	-8030.000			1160																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2310		3130.611	-8029.200			1161																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2320		3130.206	-8028.159			1162																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2330		3129.300	-8027.054			1163																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2340		3128.835	-8026.200			1164																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
22	05	1975	2350		3128.357	-8025.151			1165																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0000		3127.800	-8024.213			1166																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0020		3126.856	-8022.400			1167																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0030		3126.400	-8021.468			1168																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0040		3126.000	-8020.700			1169																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0050		3126.559	-8019.778			1170																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0100		3125.211	-8018.992			1171																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
23	05	1975	0110		3124.769	-8017.969			1172																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

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PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 29 OF		
PROGRAMMER SE-4		DATE		PUNCH		CARD ELECTRO NUMBER		
STATEMENT								
Name	Operation	Operand	Comments					Identification-Sequence
23	05	1975	0120	3124.300	-8017.435	1173		
23	05	1975	0130	3123.556	-8016.400	1174		
23	05	1975	0140	3122.945	-8015.553	1175		
23	05	1975	0150	3122.500	-8015.095	1176		
23	05	1975	0200	3122.115	-8014.611	1177		
23	05	1975	0210	3121.500	-8013.845	1178		
23	05	1975	0220	3120.968	-8012.951	1179		
23	05	1975	0230	3120.578	-8012.159	1180		
23	05	1975	0240	3119.984	-8011.458	1181		
23	05	1975	0250	3119.411	-8010.400	1182		
23	05	1975	0300	3118.849	-8009.513	1183		
23	05	1975	0310	3118.452	-8008.815	1184		
23	05	1975	0320	3117.979	-8008.100	1185		
23	05	1975	0330	3117.600	-8007.345	1186		
23	05	1975	0340	3117.000	-8006.600	1187		
23	05	1975	0350	3116.597	-8006.000	1188		
23	05	1975	0400	3116.249	-8005.058	1189		
23	05	1975	0410	3115.798	-8004.500	1190		
23	05	1975	0420	3115.300	-8003.657	1191		
23	05	1975	0430	3114.996	-8002.956	1192		
23	05	1975	0440	3114.311	-8001.915	1193		
23	05	1975	0450	3114.213	-8001.400	1194		
23	05	1975	0500	3113.757	-8000.600	1195		
23	05	1975	0510	3113.400	-8000.000	1196		



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PROGRAM	LORAN-C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 31 OF
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STATEMENT																		Identification- Sequence
1	Name	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	8
23	05	19	75	09	45			3108.379	-7942.800		1221							
23	05	19	75	10	00			3107.900	-7942.347		1222							
23	05	19	75	10	15			3107.498	-7942.000		1223							
23	05	19	75	10	30			3106.900	-7941.513		1224							
23	05	19	75	10	45			3106.400	-7941.116		1225							
23	05	19	75	11	10			3105.500	-7939.857		1226							
23	05	19	75	11	20			3105.059	-7939.500		1227							
23	05	19	75	11	30			3104.800	-7939.158		1228							
23	05	19	75	11	40			3104.357	-7938.495		1229							
23	05	19	75	11	50			3104.053	-7938.058		1230							
23	05	19	75	12	00			3103.600	-7937.578		1231							
23	05	19	75	12	10			3103.178	-7936.930		1232							
23	05	19	75	12	20			3102.814	-7936.458		1233							
23	05	19	75	12	30			3102.400	-7936.000		1234							
23	05	19	75	12	40			3102.000	-7935.513		1235							
23	05	19	75	12	50			3101.567	-7935.052		1236							
23	05	19	75	13	00			3101.298	-7934.500		1237							
23	05	19	75	13	10			3100.800	-7934.279		1238							
23	05	19	75	13	21			3100.200	-7933.597		1239							
23	05	19	75	13	30			3059.943	-7933.132		1240							
23	05	19	75	13	40			3059.466	-7932.357		1241							
23	05	19	75	13	50			3059.000	-7931.600		1242							
23	05	19	75	14	00			3058.500	-7931.257		1243							
23	05	19	75	14	10			3058.159	-7930.800		1244							



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PROGRAM	LURAN-C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 32 OF
PROGRAMMER	SE-4	DATE	PUNCH									CARD ELECTRO NUMBER

STATEMENT																Identification- Sequence	
Name		Operation				Operand				Comments							
1	8	13	14	16	20	25	30	35	40	45	50	55	60	65	71	73	8
23	03	1975	1420		3037.700	-7930.300			1245								
23	05	1975	1430		3057.000	-7929.435			1246								
23	05	1975	1440		3056.789	-7928.867			1247								
23	05	1975	1500		3055.800	-7927.957			1248								
23	05	1975	1510		3055.358	-7927.300			1249								
23	05	1975	1520		3054.945	-7926.557			1250								
23	05	1975	1530		3054.554	-7925.800			1251								
23	05	1975	1540		3054.313	-7925.345			1252								
23	05	1975	1550		3053.800	-7924.800			1253								
23	05	1975	1600		3053.387	-7924.152			1254								
23	05	1975	1607		3053.000	-7923.443			1255								
23	05	1975	1620		3052.253	-7923.600			1256								
23	05	1975	1640		3050.800	-7924.500			1257								
23	05	1975	1650		3050.000	-7925.000			1258								
23	05	1975	1700		3049.335	-7925.500			1259								
23	05	1975	1733		3046.749	-7927.000			1260								
23	05	1975	1800		3045.200	-7928.433			1261								
23	05	1975	1830		3042.845	-7930.468			1262								
23	05	1975	1900		3041.335	-7932.800			1263								
23	05	1975	1930		3040.347	-7935.733			1264								
23	05	1975	1945		3041.300	-7937.455			1265								
23	05	1975	2000		3041.713	-7939.100			1266								
23	05	1975	2030		3042.279	-7942.788			1267								
23	05	1975	2100		3041.500	-7945.267			1268								

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PROGRAM LORAN - C		PUNCHING INSTRUCTIONS	GRAPHIC														PAGE 33 OF
PROGRAMMER SE-5			PUNCH														CARD ELECTRO NUMBER

STATEMENT																			Comments										Identification- Sequence	
1	Name	8	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	75												
23	05	1975	2130			3040.657	-7947.300			1269																				
23	05	1975	2200			3039.343	-7948.841			1270																				
23	05	1975	2230			3037.065	-7950.100			1271																				
23	05	1975	2245			3037.796	-7951.156			1272																				
23	05	1975	2300			3037.300	-7952.057			1273																				
23	05	1975	2330			3036.800	-7953.905			1274																				
24	05	1975	0110			3037.000	-7957.400			1275																				
24	05	1975	0120			3037.345	-7958.152			1276																				
24	05	1975	0130			3037.500	-7959.200			1277																				
24	05	1975	0140			3037.715	-8000.300			1278																				
24	05	1975	0150			3037.832	-8001.000			1279																				
24	05	1975	0200			3038.000	-8001.845			1280																				
24	05	1975	0210			3038.264	-8002.813			1281																				
24	05	1975	0220			3038.569	-8003.600			1282																				
24	05	1975	0230			3038.700	-8004.532			1283																				
24	05	1975	0240			3038.845	-8005.456			1284																				
24	05	1975	0250			3039.000	-8006.463			1285																				
24	05	1975	0251			3039.500	-8007.400			1286																				
24	05	1975	0300			3039.603	-8008.559			1287																				
24	05	1975	0320			3039.700	-8009.500			1288																				
24	05	1975	0330			3039.900	-8010.000			1289																				
24	05	1975	0340			3040.274	-8010.876			1290																				
24	05	1975	0350			3040.365	-8011.400			1291																				
24	05	1975	0400			3040.487	-8012.413			1292																				

Transfer to SE-5

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PROGRAM	LOAN-C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 34 OF
PROGRAMMER	SE-S	DATE	PUNCH									CARD ELECTRO NUMBER

STATEMENT																	Identification- Sequence
Name		Operation		Operand		Comments											
1	6	10	14	16	20	25	30	35	40	45	50	55	60	65	71	73	80
24	05	1975	0410		3040.500	-8012.900			1293								
24	05	1975	0420		3040.759	-8013.400			1294								
24	05	1975	0430		3040.853	-8014.300			1295								
24	05	1975	0440		3041.000	-8014.803			1296								
24	05	1975	0450		3041.100	-8015.478			1297								
24	05	1975	0500		3041.300	-8016.156			1298								
24	05	1975	0510		3041.456	-8016.900			1299								
24	05	1975	0520		3041.700	-8017.462			1300								
24	05	1975	0530		3041.845	-8018.300			1301								
24	05	1975	0540		3042.000	-8018.969			1302								
24	05	1975	0550		3042.322	-8019.843			1303								
24	05	1975	0600		3042.500	-8020.613			1304								
24	05	1975	0610		3042.600	-8021.311			1305								
24	05	1975	0620		3042.900	-8022.300			1306								
24	05	1975	0630		3043.010	-8023.200			1307								
24	05	1975	0640		3043.300	-8024.900			1308								
24	05	1975	0650		3043.425	-8024.998			1309								
24	05	1975	0700		3043.636	-8025.800			1310								
24	05	1975	0710		3043.845	-8026.813			1311								
24	05	1975	0720		3044.000	-8027.500			1312								
24	05	1975	0730		3044.265	-8028.269			1313								
24	05	1975	0740		3044.500	-8029.610			1314								
24	05	1975	0750		3044.665	-8030.300			1315								
24	05	1975	0800		3044.800	-8031.259			1316								

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IBM		IG-15-1		PROGRAM		LORAN-C		PUNCHING INSTRUCTIONS		GRAPHIC										PAGE 35 OF	
PROGRAMMER		SF-5		DATE						PUNCH										CARD ELECTRO NUMBER	

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STATEMENT

Comments.

Identification-Sequence

Name		Operation		Operand		Comments		Sequence	
1	2	3	4	5	6	7	8	9	10
24	05	1975	0810			3045.000	-8032.500		1317
24	05	1975	0820			3045.326	-8032.994		1318
24	05	1975	0830			3045.500	-8034.000		1319
24	05	1975	0840			3045.767	-8034.900		1320
24	05	1975	0850			3045.874	-8035.521		1321
24	05	1975	0900			3046.015	-8036.606		1322
24	05	1975	0910			3046.279	-8037.500		1323
24	05	1975	0920			3046.400	-8038.442		1324
24	05	1975	0930			3046.500	-8039.300		1325
24	05	1975	0940			3046.705	-8040.196		1326
24	05	1975	0950			3047.000	-8041.156		1327
24	05	1975	1000			3047.058	-8042.000		1328
24	05	1975	1010			3047.200	-8042.431		1329
24	05	1975	1020			3047.400	-8043.757		1330
24	05	1975	1032			3047.569	-8044.500		1331
24	05	1975	1040			3047.764	-8045.219		1332
24	05	1975	1051			3047.900	-8046.300		1333
24	05	1975	1100			3048.000	-8047.000		1334
24	05	1975	1111			3048.200	-8047.800		1335
24	05	1975	1120			3048.435	-8048.600		1336
24	05	1975	1130			3048.440	-8049.400		1337
24	05	1975	1140			3048.534	-8050.300		1338
24	05	1975	1150			3048.700	-8051.200		1339
24	05	1975	1200			3048.835	-8051.995		1340

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PROGRAM	LORAN-C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 36 OF
PROGRAMMER	SE-5	DATE	PUNCH									CARD ELECTRO NUMBER

PROGRAMMER			STATEMENT																																	Identification-Sequence																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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PROGRAM	LORAN C	PUNCHING INSTRUCTIONS	GRAPHIC									PAGE 37 OF
PROGRAMMER	SE-6	DATE	PUNCH									CARD ELECTRO NUMBER

STATEMENT																								Comments												Identification-Sequence	
1	Name	5	10	14	16	20	25	30	35	40	45	50	55	60	65	70	73																				
24	05	1975	1900			3010	800	-8047	000		1365																										
24	05	1975	1920			3008	845	-8047	300		1366																										
24	05	1975	1942			3006	456	-8047	767		1367																										
24	05	1975	2000			3004	956	-8048	000		1368																										
24	05	1975	2020			3002	813	-8048	700		1369																										
24	05	1975	2040			3000	745	-8049	400		1370																										
24	05	1975	2100			2958	453	-8050	115		1371																										
24	05	1975	2110			2957	400	-8050	458		1372																										
24	05	1975	2120			2956	355	-8051	459		1373																										
24	05	1975	2130			2956	296	-8052	533		1374																										
24	05	1975	2140			2956	200	-8054	100		1375																										
24	05	1975	2150			2955	900	-8055	595		1376																										
24	05	1975	2200			2955	856	-8057	000		1377																										
24	05	1975	2210			2955	800	-8058	400		1378																										
24	05	1975	2220			2955	400	-8059	695		1379																										
24	05	1975	2230			2954	900	-8101	000		1380																										
24	05	1975	2240			2954	200	-8101	953		1381																										
24	05	1975	2250			2953	345	-8102	856		1382																										
24	05	1975	2255			2952	900	-8103	342		1383																										
24	05	1975	2300			2952	335	-8103	047		1384																										
24	05	1975	2312			2952	057	-8102	050		1385																										
24	05	1975	2320			2951	913	-8101	425		1386																										
24	05	1975	2322			2952	000	-8101	389		1387																										
24	05	1975	2330			2951	937	-8100	800		1388																										

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PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 39 OF		
PROGRAMMER SE-6		DATE		PUNCH		CARD ELECTRO NUMBER		
STATEMENT								
Name	Operation	Operand	Comments					Identification-Sequence
25	05	1975	0340	2950.700	-8037.800	1413		
25	05	1975	0350	2950.757	-8037.000	1414		
25	05	1975	0400	2950.600	-8035.900	1415		
25	05	1975	0410	2950.500	-8034.800	1416		
25	05	1975	0420	2950.475	-8033.700	1417		
25	05	1975	0430	2950.412	-8032.745	1418		
25	05	1975	0440	2950.476	-8031.957	1419		
25	05	1975	0450	2950.259	-8030.975	1420		
25	05	1975	0500	2950.100	-8029.900	1421		
25	05	1975	0510	2950.045	-8029.000	1422		
25	05	1975	0520	2950.000	-8028.311	1423		
25	05	1975	0530	2949.900	-8027.300	1424		
25	05	1975	0540	2949.800	-8025.968	1425		
25	05	1975	0550	2949.700	-8025.100	1426		
25	05	1975	0600	2949.600	-8024.463	1427		
25	05	1975	0610	2949.557	-8023.400	1428		
25	05	1975	0620	2949.479	-8022.500	1429		
25	05	1975	0630	2949.400	-8021.832	1430		
25	05	1975	0640	2949.400	-8020.742	1431		
25	05	1975	0650	2949.300	-8020.100	1432		
25	05	1975	0700	2949.100	-8019.375	1433		
25	05	1975	0711	2949.037	-8018.478	1434		
25	05	1975	0721	2949.000	-8017.785	1435		
25	05	1975	0730	2948.953	-8017.000	1436		

[illegible][illegible]

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PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 41 OF	
PROGRAMMER SE-6		DATE		PUNCH		CARD ELECTRO NUMBER	
STATEMENT							
Name	Operation	Operand	Comments	Identification-Sequence			
25	05	1975	1140	2949.057	-8002.100	1461	
25	05	1975	1150	2948.965	-8001.800	1462	
25	05	1975	1200	2949.000	-8001.500	1463	
25	05	1975	1210	2949.000	-8000.900	1464	
25	05	1975	1220	2949.074	-8000.500	1465	
25	05	1975	1230	2949.074	-7959.900	1466	
25	05	1975	1240	2949.000	-7959.385	1467	
25	05	1975	1252	2949.100	-7958.800	1468	
25	05	1975	1300	2949.053	-7958.300	1469	
25	05	1975	1310	2949.050	-7957.711	1470	
25	05	1975	1320	2949.000	-7957.214	1471	
25	05	1975	1330	2948.996	-7956.556	1472	
25	05	1975	1340	2948.863	-7956.056	1473	
25	05	1975	1350	2948.800	-7955.400	1474	
25	05	1975	1400	2948.700	-7954.800	1475	
25	05	1975	1410	2948.700	-7954.278	1476	
25	05	1975	1430	2948.445	-7953.000	1478	
25	05	1975	1440	2948.400	-7952.400	1479	
25	05	1975	1450	2948.400	-7951.800	1480	
25	05	1975	1500	2948.400	-7950.358	1481	
25	05	1975	1510	2948.300	-7950.100	1482	
25	05	1975	1521	2948.256	-7949.300	1483	
25	05	1975	1530	2948.000	-7948.556	1484	

PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 42 OF	
PROGRAMMER SE-6		DATE		PUNCH		CARD ELECTRO NUMBER	
STATEMENT							
Name		Operation		Operand		Comments	
1	8	12	14	16	20	25	30
25	05	1975	1540		2947.959	-7947.800	1485
25	05	1975	1550		2947.900	-7946.755	1486
25	05	1975	1600		2947.968	-7946.000	1487
25	05	1975	1610		2947.800	-7945.057	1488
25	05	1975	1620		2947.678	-7944.000	1489
25	05	1975	1630		2947.500	-7943.000	1490
25	05	1975	1640		2947.300	-7941.795	1491
25	05	1975	1650		2947.285	-7941.235	1492
25	05	1975	1700		2947.389	-7940.351	1493
25	05	1975	1710		2947.400	-7939.448	1494
25	05	1975	1721		2947.400	-7938.400	1495
25	05	1975	1730		2947.400	-7937.775	1496
25	05	1975	1742		2947.342	-7936.543	1497
25	05	1975	1750		2947.400	-7935.900	1498
25	05	1975	1800		2947.384	-7934.965	1499
25	05	1975	1810		2947.344	-7934.000	1500
25	05	1975	1820		2947.445	-7933.300	1501
25	05	1975	1830		2947.445	-7932.400	1502
25	05	1975	1840		2947.300	-7931.533	1503
25	05	1975	1850		2947.200	-7930.766	1504
25	05	1975	1900		2947.200	-7929.734	1505
25	05	1975	1910		2946.997	-7928.700	1506
25	05	1975	1920		2946.800	-7927.800	1507
25	05	1975	1930		2946.705	-7926.800	1508

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PROGRAM		PUNCHING INSTRUCTIONS		GRAPHIC		PAGE 43 OF	
PROGRAMMER		DATE		PUNCH		CARD ELECTRO NUMBER	
STATEMENT							
Name	Operation	Operand	Comments	Identification-Sequence			
25	05	1975 1940	2946.459 -7925.845	1509			
25	05	1975 1950	2946.100 -7924.758	1510			
25	05	1975 2000	2945.900 -7923.700	1511			
25	05	1975 2010	2945.600 -7922.996	1512			
25	05	1975 2020	2945.469 -7922.000	1513			
25	05	1975 2030	2945.300 -7921.052	1514			
25	05	1975 2040	2945.059 -7920.000	1515			
25	05	1975 2050	2944.969 -7919.000	1516			
25	05	1975 2100	2944.895 -7918.079	1517			
25	05	1975 2110	2944.567 -7917.000	1518			
25	05	1975 2120	2944.500 -7916.045	1519			
25	05	1975 2130	2944.300 -7915.176	1520			
25	05	1975 2140	2944.000 -7914.057	1521			
25	05	1975 2150	2943.867 -7913.065	1522			
25	05	1975 2200	2943.600 -7912.093	1523			
25	05	1975 2210	2943.600 -7911.200	1524			
25	05	1975 2220	2943.700 -7910.453	1525			
25	05	1975 2240	2943.200 -7909.200	1526			