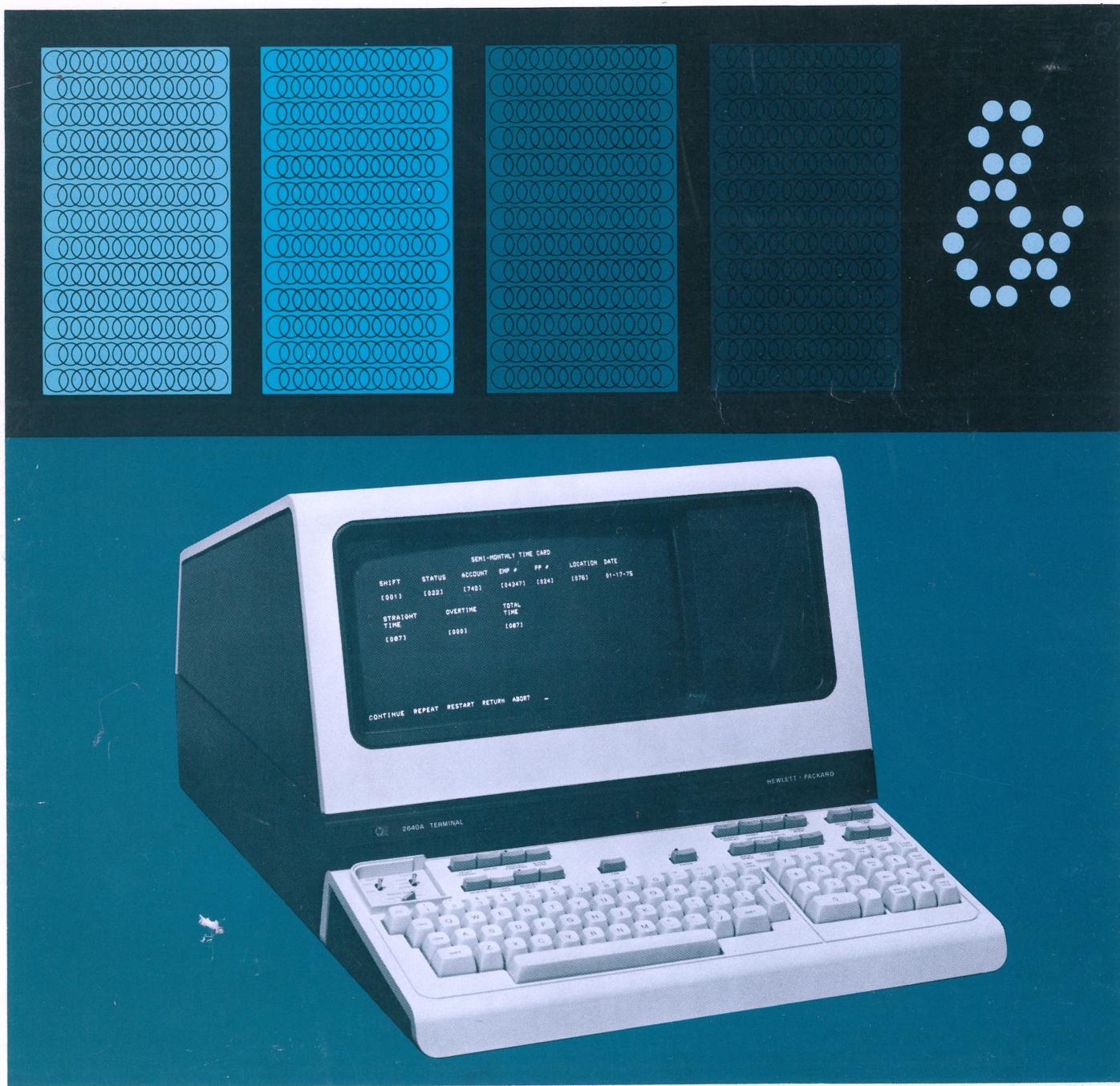


## 2640 Series Character Set Generation



# **2640 Series**

## **Character Set Generation**

**By Jean-Claude Roy**

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## I. INTRODUCTION

The purpose of this kit is to enable 264XX users to generate and breadboard their own custom alphanumeric and microvector character sets. The kit contains this application note, a 02640-60053 Prom Character Board assembly, and a 02640-60070 Connector Assembly.

An initial overview of the display will give the reader familiarity with the character generation procedure employed within the terminal. This will be followed by detailed instructions and aids in designing either an alphanumeric or microvector character set and its eventual translation into PROM bit patterns. The final result of the application of the information contained in this note will be a set of PROMs containing the desired custom character set. ROM masks can be subsequently generated from the dot pattern data if the required quantity of parts is large.

Appendices A and B contain reproducible originals of several forms which are useful in designing and implementing a character set. The use of these forms is strongly encouraged to keep the dot bookkeeping simple and accurate. Finally, listings are given of the 128-character Roman set, the 64-character Math Symbol set, and the 64-character Line Drawing Set. These can be used as guides and examples in the design of new, custom character sets.

## II. 2640 SERIES DISPLAY FUNDAMENTALS

### THE BASIC CHARACTER CELL

The 264XX utilizes a raster scan display having a capacity of 1920 characters. It is organized as 24 rows of 80 columns spanning a screen size of nominally 10" in width by 5" in height. The basic character cell which is common to all 1920 character positions is shown in Figure 2.1. It consists of a rectangle 9 dots wide by 15 scan lines high. The blinking cursor and underline feature overlay the character cell in scan lines 11 and 12 as is shown in Figure 2.2.

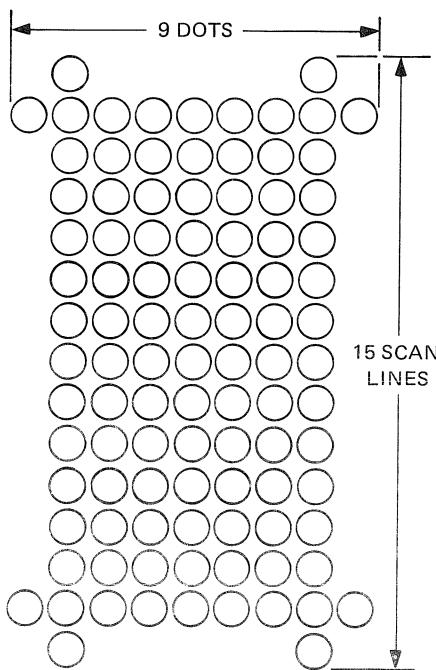


FIGURE 2.1

Basic Character Cell of 9 Dots x 15 Scan Lines With  
Spacers Between Characters and Rows

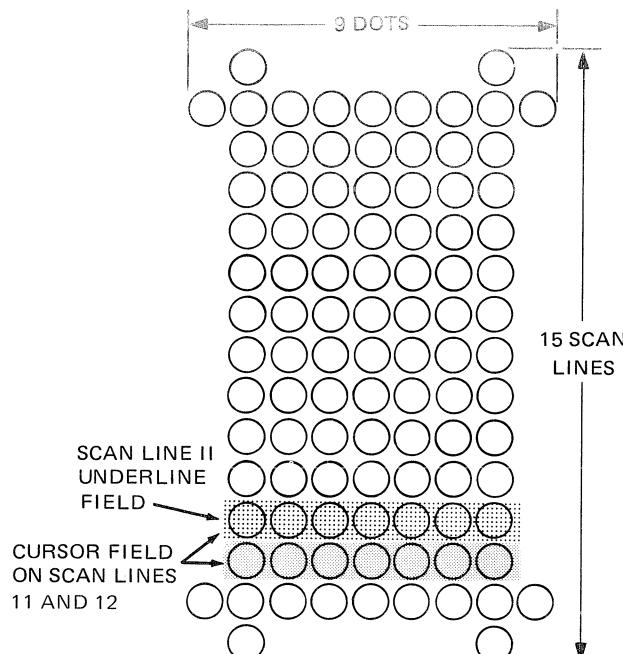


FIGURE 2.2

Basic Character Cell With Underline and Cursor Fields

### TYPES OF CHARACTER SETS

Two types of character sets can be contained within the Terminal; alphanumeric sets and microvector sets. Alphanumeric sets are characterized by having a rectangle of 7 dots by 13 scan lines which are used for upper case, lower case, and control characters. Two of the dot columns, one on either side of the character, are used for horizontal character to character spacing. Similarly, two scan lines are used for vertical row to row spacing. These sets also utilize a resolution enhancing half-shift described below.

Microvector sets use the entire 9 dot by 15 scan line rectangle without the half-shift or spacer columns and scan lines. As a result, all of the encoded dots appear and the characters can be concatenated horizontally and vertically for contiguous lines. The primary purpose of the microvector sets is to generate special symbols and line segments for limited graphic display applications, forms, or histogram plots.

In practice, the horizontal line segments of characters are not visible as discrete dots but rather as line segments or bars. This results in greater light output and the elimination of horizontal discontinuities. The inherent graininess of a finite resolution dot matrix however, still remains. This is in part ameliorated by the use of the horizontal half-shift.

### THE HALF-SHIFT AND CHARACTER ENHANCEMENT

Figure 2.3 illustrates a right parenthesis on a hypothetical 3x3 dot matrix. Due to the limited cell resolution the resulting character is very ragged.

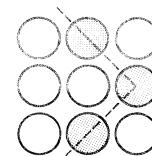


FIGURE 2.3

Ragged Right Parenthesis on Hypothetical  
3x3 Dot Matrix

If the capability exists to utilize the horizontal interstitial two dots as shown in Figure 2.4, then a smoother parenthesis results.

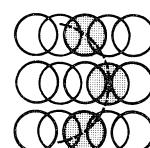


FIGURE 2.4

Smoothened Right Parenthesis on Hypothetical 3x3 Dot Matrix  
by Utilization of a Horizontal Dot Half-Shift

The 264XX has a half-shift as described above to achieve a pseudo-resolution expansion in the horizontal direction to 13 dots; 7 non-shifted dots and the interstitial 6 half-shifted dots. Figure 2.5 shows the final character cell which the 264XX uses for all alphanumeric characters. If vertically contiguous characters are desired, such as the components of a three row high integral sign, then dots may be coded in the normally vacant spacer scan lines 0 and 14.

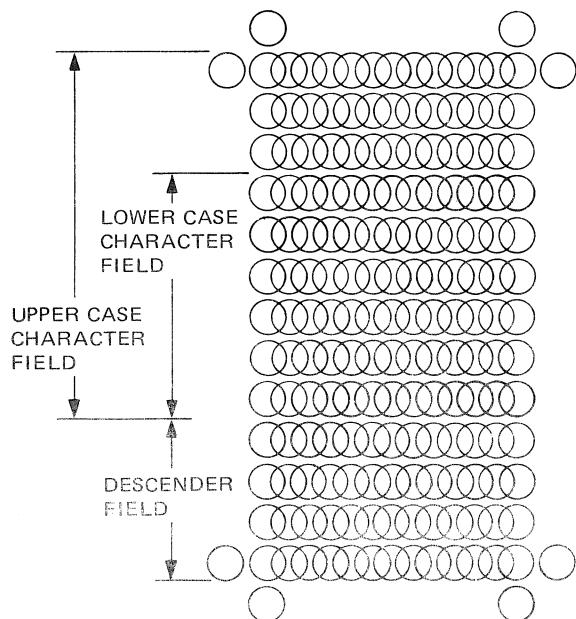


FIGURE 2.5  
Basic Alphanumeric Character Cell with Six Interstitial Dot Positions 1-1/2 thru 6-1/2, Horizontal and Vertical Spacers, and Descender, Upper Case, and Lower Case Character Fields

The dot patterns which form the characters are stored in ROMs. In a basic alphanumeric system one 8K bit ROM holds the 64 character upper case primary set, including the space character. The 128 character set option consists of a second 8K bit ROM and adds the control characters and the lower case primary set, along with the delete character. The primary set is that alphabet which is immediately available to the user when the terminal is first turned on. Microvector character sets are stored as 64 characters per 9K bit ROM with partitioning similar to alphanumeric sets.

### THE DISPLAY ENHANCEMENT BOARD

The Display Enhancement Board (Product No. 13231A) increases the 264XX character set capacity to 512 characters. These additional characters are partitioned as three sets of 128 characters each with 64 per ROM. The six sockets on the board can be set up with combinations of 128 or 64 character sets configured as being of either the alphanumeric or microvector type. All of the sets are accessible by means of escape sequences and control codes.

The Prom Character Set printed circuit board has the capacity for two 128 character sets encoded in 4K PROMs each containing 32 alphanumeric characters. Four 4K PROMs are required to store a 128 character set. If the set is of the microvector type, a fifth PROM is also needed to store the ninth bit of dots.

When the board is connected to either the Display Control Board or the Display Enhancement Board it can replace either the Terminal's primary set or any two of the three available alternate sets respectively. The particular two sets are selected by means of two jumpers on the PROM Character Board. The alternate sets can be of either the alphanumeric or microvector type, depending on the jumper configuration at the enhancement board. Section VIII will be describe the PROM Character Board and its use in more detail.

### III. ALPHANUMERIC CHARACTER GENERATION

#### MEMORY ORGANIZATION

Alphanumeric characters may be stored in either ROMs or PROMs. In the former case 8K bit ROMs are used, each containing 64 characters and organized as 1K words of 8 bits each. Sixteen consecutive ROM words are used per character with the first 15 actually appearing on the screen. The sixteenth word is never accessed. The representation of characters in PROMs rather than ROMs is basically identical. The differences are that only 32 characters are stored in each 4K PROM and that they must be used with the PROM Character Board. Section V describes the partitioning of the ASCII Code for both ROMs and PROMs in detail.

The output word bits are numbered 0 through 7 with BIT 1 corresponding to the first non-spacer dot column of a character, BIT 2 to the second dot column, etc. The outputs are ground true so that when a particular word is addressed and an output line goes low, then that dot lights up on the screen.

BIT 0 serves as the half-shift control bit. When it is true, i.e., low, then bits 1 through 6 are half-shifted by one-half dot position to the right to positions 1-1/2 through 6-1/2 respectively. Bits 0 and 7 cannot be set simultaneously; that would result in a dot at position 7-1/2 which is outside the 7 by 13 character area.

#### THE HALF-SHIFT ALGORITHM

Three simple rules can be stated in designing an alphanumeric character set employing the half-shift:

1. In any scan line segment any combination of dots 1 through 7 can be set without the half-shift (BIT 0 of the ROM word is high).
2. In any scan line segment any combination of dots 1-1/2 through 6-1/2 can be set with the half-shift (BIT 0 of the ROM word is low).
3. In any scan line segment BIT 0 and BIT 7 cannot be simultaneously set.

Figure 3.1a illustrates a character designed to these rules. Scan lines 1, 3, 7 and 9 are half-shifted while lines 2, 4, 5, 6 and 8 are not. Figure 3.1b is a representation of the same character as it is encoded in the character ROM or PROM.

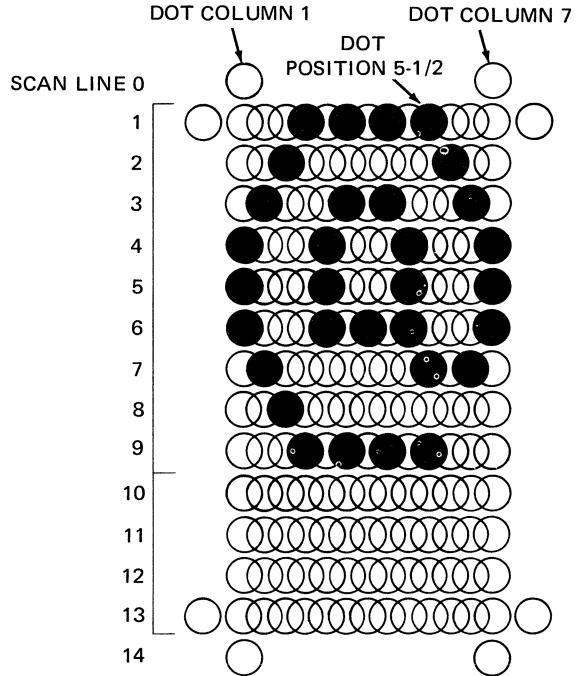


FIGURE 3.1a  
An Upper Case Character Which Illustrates the Use  
of the Half-Shift Algorithm

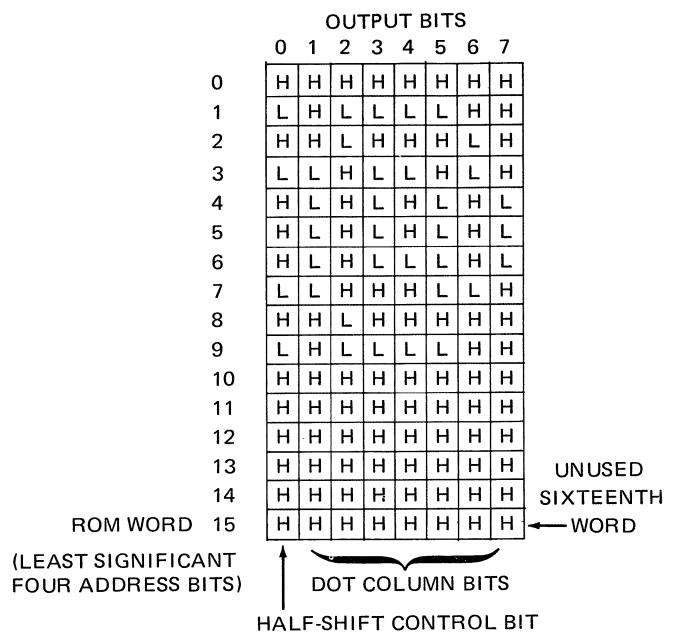


FIGURE 3.1b  
Character ROM Encoding of the Same Character

## IV. MICROVECTOR CHARACTER GENERATION

### MEMORY ORGANIZATION

Microvector characters, like alphanumeric characters, may be stored in either ROMs or PROMs. In the former case 9K bit ROMs are used, each containing 64 characters and organized as 1K words of 9 bits each. Sixteen consecutive ROM words are used per character with the first 15 actually appearing on the screen. The sixteenth word is never accessed. The representation of microvector characters in PROMs rather than ROMs is only slightly different in its implementation; 32 microvector characters are stored in each 4K PROM and an additional PROM is multiplexed over the entire 128 character set to provide the ninth data bit. As with the alphanumeric character sets, these PROMs must be used with the PROM character Board. Section V describes the partitioning of the ASCII Code for both ROMs and PROMs in detail.

The output word bits are numbered 0 through 8 with BIT 0 corresponding to the extreme left dot position in the character cell. BIT 1 corresponds to the second dot position, etc. As with the alphanumeric character ROMs and PROMs, the outputs are ground true so that when a particular word is addressed and an output line goes low, then that dot lights up on the screen.

### MICROVECTOR DOT MATRIX

All 9 dots by 15 scan lines of the character cell are encoded within the Microvector character ROMs or PROMs. This gives the designer the freedom to generate any desired combination of vertically and/or horizontally contiguous characters within the 9x15 cell matrix. Larger characters can be formed by clustering several characters together to make a larger dot matrix.

Figure 4.1 illustrates a microvector character from the Line Drawing Set (See Appendix G) and its representation in ROM.

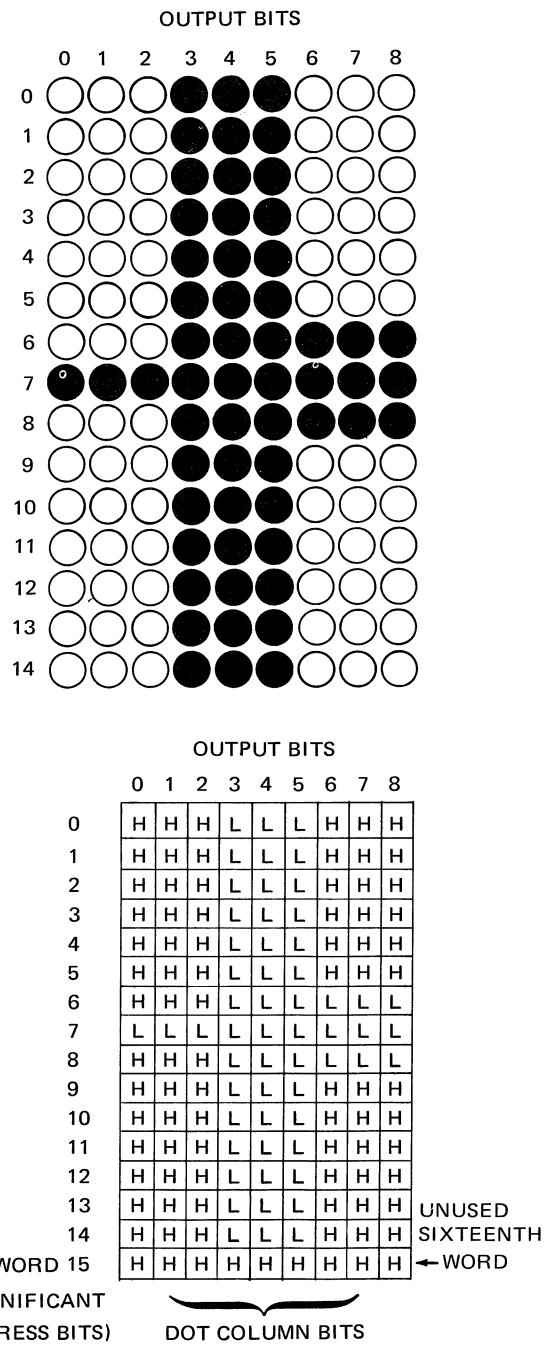


FIGURE 4.1

A representative Microvector Character and its Coding in ROM

## V. THE ASCII CODE AND THE 264XX

This section will cover three areas of importance in the generation of a new character set. The first topic will deal with the partitioning of the 7-bit ASCII code within the 264XX into upper case, lower case, and control characters, both in ROM and PROM. Reference will then be made to those areas of the ASCII chart wherein expansion to alternate character sets is possible. Finally the mapping procedure from the keyboard to the ASCII chart will be covered.

Armed with this information the user can then answer the following fundamental questions before beginning a character set: 1) How many characters must be designed? 2) How many PROMs or ROMs will be needed to implement the set?, and 3) Where will the characters appear on the keyboard?

### ASCII CODE PARTITIONING WITHIN THE 264XX

The 264XX partitions the 7-bit ASCII code into three categories; 64 upper case symbols, 32 lower case symbols, and 32 control codes. See Figure 5-1, taken from the standard ANSI code (ANS X3.4-1968). In the basic system only the 64 upper case ROM symbols are displayable; all lower case ROM symbols automatically become shifted to their upper case representations and control codes are stripped out. With the addition of the 128 character set option, all characters become displayable, including the control codes when in the Display Function mode.

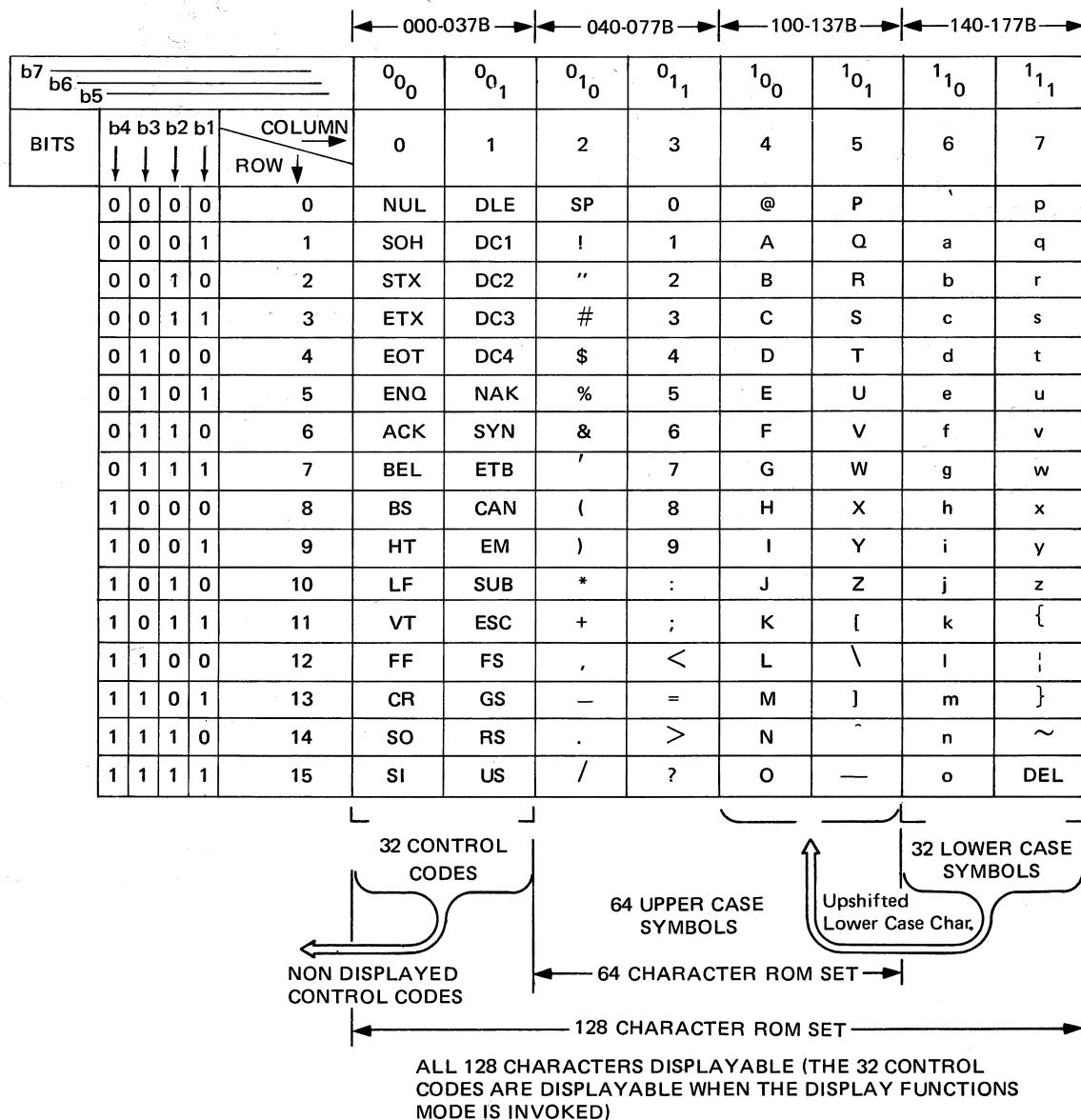


FIGURE 5.1  
Partitioning of the 7 Bit ASCII Code With  
a 64 and a 128 Character Set in ROM.

The upper case ROM stores the 64 upper case symbols (040-137B) while the lower case ROM stores the 32 control codes (000-037B) and the 32 lower case symbols (140-177B). Figure 5.2 illustrates the character ordering within the ROMs. When a 128 character set is stored in PROMs,

then the character partitioning is as shown in Figure 5.3. Each holds the 32 consecutive characters contained in one half of a character ROM. PROM sets are always treated as containing 128 characters; there is no upshifting of lower case symbols to their upper case representation.

0	SP	16	0	32	@	48	P
1	!	17	1	33	A	49	Q
2	"	18	2	34	B	50	R
3	#	19	3	35	C	51	S
4	\$	20	4	36	D	52	T
5	%	21	5	37	E	53	U
6	&	22	6	38	F	54	V
7	'	23	7	39	G	55	W
8	(	24	8	40	H	56	X
9	)	25	9	41	I	57	Y
10	*	26	:	42	J	58	Z
11	+	27	;	43	K	59	[
12	,	28	<	44	L	60	\
13	-	29	=	45	M	61	]
14	.	30	>	46	N	62	^
15	/	31	?	47	O	63	_

UPPER CASE  
ROM  
040-137B  
(SP - \_)

0	NUL	16	DLE	32	'	48	p
1	SOH	17	DC1	33	a	49	q
2	STX	18	DC2	34	b	50	r
3	ETX	19	DC3	35	c	51	s
4	EOT	20	DC4	36	d	52	t
5	ENQ	21	NAK	37	e	53	u
6	ACK	22	SYN	38	f	54	v
7	BEL	23	ETB	39	g	55	w
8	BS	24	CAN	40	h	56	x
9	HT	25	EM	41	i	57	y
10	LF	26	SUB	42	j	58	z
11	VT	27	ESC	43	k	59	{
12	FF	28	FS	44	l	60	:
13	CR	29	GS	45	m	61	}
14	SO	30	RS	46	n	62	~
15	SI	31	US	47	o	63	DEL

(N<sub>U</sub> - U<sub>S</sub>) ' - DEL)

FIGURE 5.2  
Character Ordering Within the Upper Case  
64 Character ROM & the Lower Case 64 Character ROM

0	NUL	16	DLE
1	SOH	17	DC1
2	STX	18	DC2
3	ETX	19	DC3
4	EOT	20	DC4
5	ENQ	21	NAK
6	ACK	22	SYN
7	BEL	23	ETB
8	BS	24	CAN
9	HT	25	EM
10	LF	26	SUB
11	VT	27	ESC
12	FF	28	FS
13	CR	29	GS
14	SO	30	RS
15	SI	31	US

000-037B (N<sub>U</sub> - U<sub>S</sub>)

0	SP	16	0
1	!	17	1
2	"	18	2
3	#	19	3
4	\$	20	4
5	%	21	5
6	&	22	6
7	'	23	7
8	(	24	8
9	)	25	9
10	*	26	:
11	+	27	;
12	,	28	<
13	-	29	=
14	.	30	>
15	/	31	?

040-077B (SP - ?)

0	'	16	p
1	a	17	q
2	b	18	r
3	c	19	s
4	d	20	t
5	e	21	u
6	f	22	v
7	g	23	w
8	h	24	x
9	i	25	y
10	j	26	z
11	k	27	{
12	l	28	:
13	m	29	}
14	n	30	~
15	o	31	DEL

100-137B (@ - \_)

0	'	16	p
1	a	17	q
2	b	18	r
3	c	19	s
4	d	20	t
5	e	21	u
6	f	22	v
7	g	23	w
8	h	24	x
9	i	25	y
10	j	26	z
11	k	27	{
12	l	28	:
13	m	29	}
14	n	30	~
15	o	31	DEL

140-177B (' - DEL)

FIGURE 5.3  
PROM Partitioning for 128 Characters

## ANSI CODE EXTENSION

The proposed ANSI code extension (ANSI X3.4, 1968) partitions the 7-bit ASCII code into the following four groups: 1) a set of 32 control codes; 2) a set of 94 graphic characters comprising the upper case and lower case symbols; 3) the space character; and 4) the delete character. See Figure 5.4.

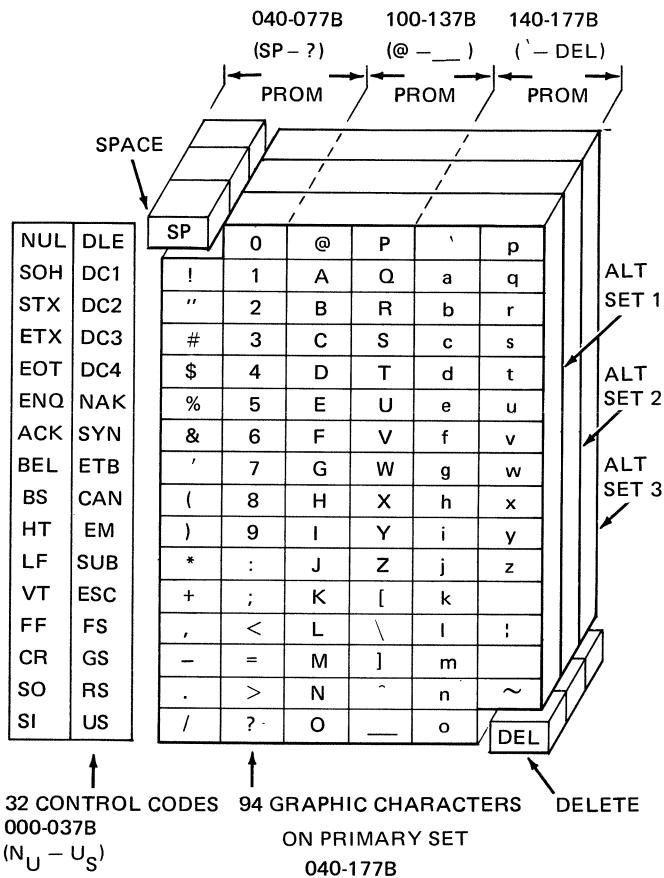


FIGURE 5.4

ANSI Partitioning of the 7 Bit ASCII Code

Also Shown Are Three Alternate 94 Character Graphic Sets

It is in the better interest of the user to not attempt to redefine the 32 control characters inasmuch as most of them are utilized by the 264XX. Similarly, the space and delete characters are already designated by convention for all graphic sets and must not be reassigned. This leaves the 94 graphic symbols of which 63 are in the upper case set (along with the space) and 32 are in the lower case set (including delete).

Figure 5.4 also illustrates the three alternate character sets which can reside within the terminal. Each set consists of 94 graphic characters, space, delete, and the original 32 control characters. For many applications alternate sets limited to 64 alphanumeric characters will suffice; these can be implemented in two 4K PROMs appearing together as an upper case set. If a ROM implementation is required later, then a single 8K ROM can contain the 64 characters.

Alphanumeric sets requiring 96 characters need three 4K PROMs for their implementation. In most cases the 32 control codes need not be replicated in the alternate sets since they are carried in the base set. If ROMs are used, however, the residual 32 characters of the lower case ROM would contain them anyway.

Microvector sets follow partitioning similar to alphanumeric sets. Only two differences need be noted. First, one PROM containing the ninth dot column must be used independent of the size of the alternate set. Secondly, ROM implementations utilize a 9K ROM to store 64 characters. The coding of both alphanumeric and microvector PROM sets will be covered in more detail in Section VII.

## KEYBOARD ASSIGNMENTS

With the simple addition of PROM or ROM alternate sets the keycap-to-displayed character assignment does not change; to do so would entail firmware changes within the 264XX. All custom characters will then map with a one-to-one correspondence between the physical keys on the keyboard and the character's position on the ASCII chart. The basic Roman character set as defined by ANSI X3.4, 1968 should be used to locate a new character's ASCII chart location given its desired keyboard address.

For example, the "@" key may be assigned a new arbitrary symbol in some custom character set. To invoke that symbol requires that it be stored as the 33rd character of an upper case set, or at 100B.

It is advantageous when designing a new custom character set to first decide upon the keyboard assignment of the characters themselves. Such questions as how many characters are needed and where to place them on the keyboard must be answered. Having done this then leads immediately to the order in which the characters must be packed within the PROMs. The last step is the detailed design of the individual characters themselves; coding them into the PROM format, and getting the PROMs programmed.

## VI. HINTS AND TIPS ON CHARACTER DESIGN

The design of a character set is more an art than a science; as such, aesthetics and human judgment predominate during the design and layout. This is especially true in the design of a foreign language alphabet. A person undertaking this task should, ideally, have at least a reading knowledge of the language to insure an accurate rendering of subtle character details. With this consideration in mind, though, some general tips can still be enumerated which can help the user wade through the morass of judgment and compromise needed to realize a working character set.

### UNIFORMITY OF CHARACTER STYLE

The character style and symbol complexity are strong functions of the language being designed. Some languages will be difficult, while others will be fairly easy to reproduce in a dot matrix format.

Character representation variations such as varying line weights or slants may not be possible in many languages; if the symbols are complex, then heavy or slanted characters may exceed the width of the character cell. Similarly, the rigid format of a dot matrix makes most ornate variations difficult or impossible. Italic or script fonts may exceed the character cell on some characters. If, in spite of this, such a set is designed anyway with some characters not embellished, then the overall uniformity of the set is destroyed. The net effect is somewhat unpleasant and distasteful to the eye. The decision to use serifs on the characters also falls into this category. If they are used at all, they must be used everywhere to generate a uniformly harmonious set.

### HORIZONTAL CENTERING

Another aspect of uniformity in character design is that all characters be centered within their respective cells. It is advantageous from an esthetic standpoint to spend a moment checking a character's centering after designing it. If it is an integral number of dots in width then centering can be done exactly via the half-shift. Otherwise the character can only be centered to within half a dot. Figure 6.1 illustrates an off-center character and a recentered version.

### LOWER CASE CHARACTER HEIGHT

Lower case characters may be either 5 or 6 scan lines in height. The only advantage of using 5 lines is that a center line now exists. This advantage is offset by the more important consideration of lower legibility due to a smaller character. A 6 scan line high lower case character is strongly recommended in that the 20% increase in height more than compensates for the loss of the center line and yields a more legible character. Lower case descenders should utilize the entire field provided from scan lines 10 through 13.

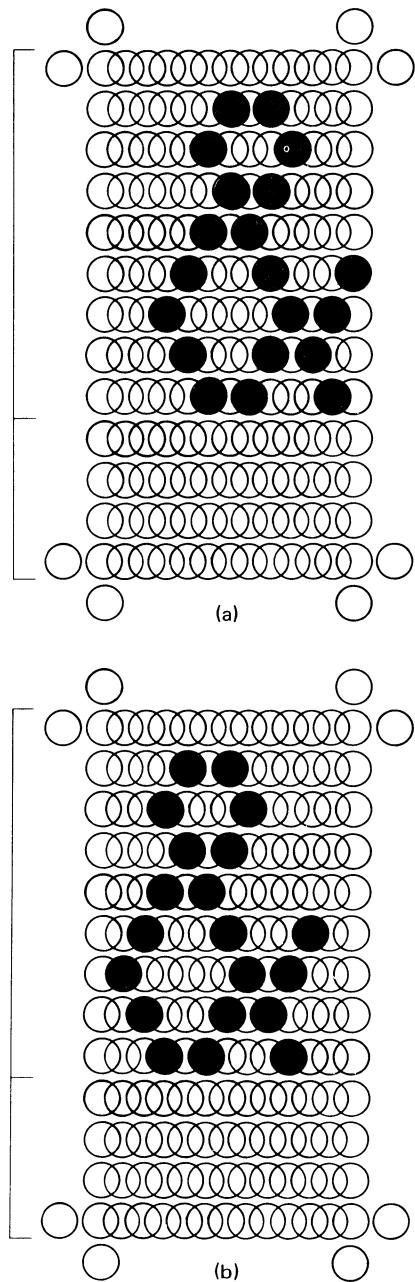
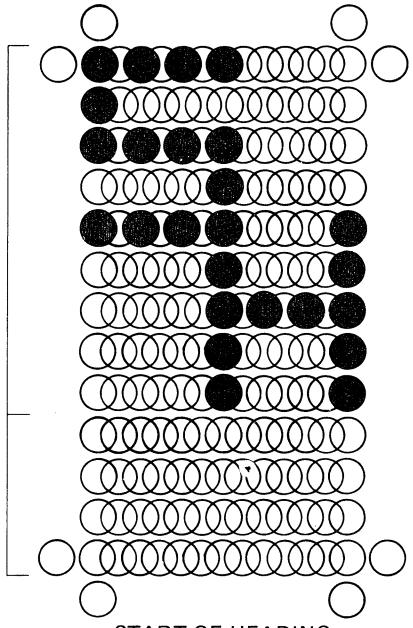


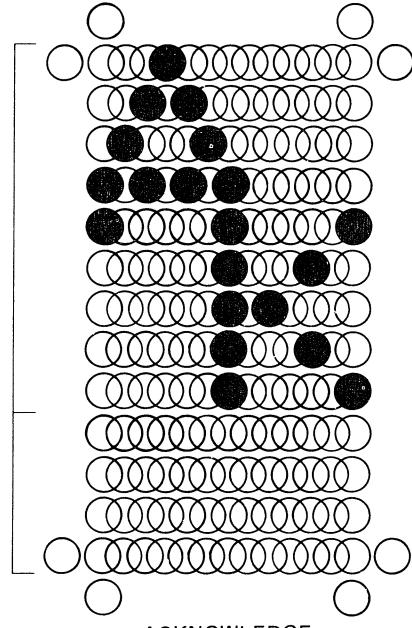
FIGURE 6.1  
Illustrations of (a) Off-Center Character, and  
(b) the Same Character Recentered to Within One Half Dot  
of True Center

### TWO CHARACTER MNEMONICS

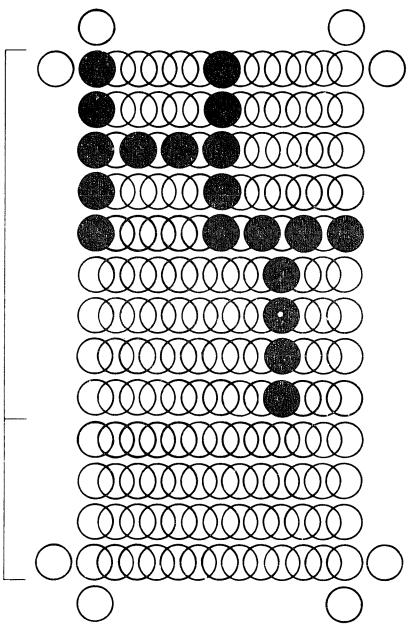
Special two character mnemonics can easily be coded within the 264XX character font. Several examples taken from the ASCII Control Codes are shown in Figure 6.2. Similar special characters can easily be generated by overlapping two miniature 4x5 characters one dot horizontally and one scan line vertically. This results in concatenated characters which are still legible yet can easily denote special symbols or functions.



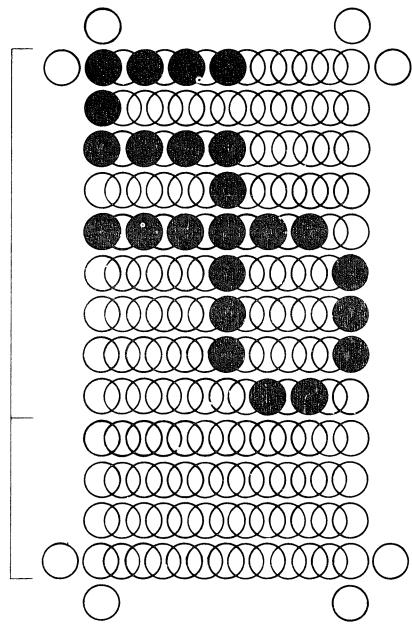
START OF HEADING



ACKNOWLEDGE



HORIZONTAL TAB



SHIFT OUT

FIGURE 6.2  
Examples of Two Character Mnemonics  
Taken From ASCII Control Codes

## VERTICALLY CONTIGUOUS CHARACTERS

Some special alphanumeric character sets require that vertical character segments span across row boundaries. An example of this is the three segment integral sign found in the Math Symbol set (Figure 6.3). Such characters can be generated by encoding dots in the normally blank scan lines 0 and 14. When the characters are vertically butted then continuous vertical segments are formed.

## CHARACTER BRIGHTNESS UNIFORMITY

One characteristic of the dot matrix which must be considered when designing characters is that diagonal segments may appear dimmer than horizontal or vertical segments. This is because the center-to-center spacing of dots on the diagonals is either 1.414 or 1.118 times the vertical spacing for non-half-shifted and half-shifted diagonals respectively.

The effect may be minimized to some extent by attempting to design out long diagonal segments intersecting horizontal or vertical segments. It is also sometimes useful to use a half-shift diagonal in place of a non-shifted diagonal since the former has the greater dot density.

Some characters, by virtue of their intrinsic shapes, have appendages which will not appear bright with respect to the bulk of the character. For example, the dot over the lower case 'i' or the dot under the exclamation point. These characters can be improved by using a cluster of three or four dots; this results in a spot which appears to be equal in brightness with the rest of the character.

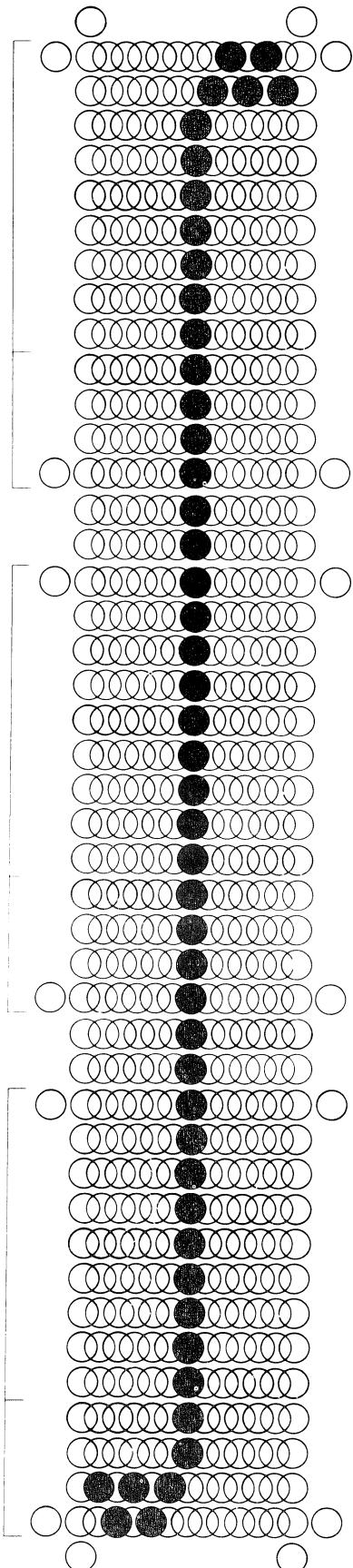


FIGURE 6.3  
Three Segment Integral Sign Showing Vertical Contiguity

## VII. ENCODING CHARACTERS IN PROM

This section will deal with the actual mechanics of generating character data in a format suitable for conversion to PROMs, beginning with the dot matrix and finishing with PROM data.

### USE OF THE CHARACTER MATRIX WORKSHEET

Appendices A and B contain dot matrix worksheets to simplify the generation of alphanumeric and microvector characters respectively. Figure 7.1a illustrates a hypothetical alphanumeric character designed in accordance with the conventions described in Section VI. In addition, by way of example, it is desired that this character be invoked by means of the upper case "p" key on the keyboard.

Figure 7.1b shows the same character as it must be encoded as bits in a PROM. The half-shifted dots in scan lines 2, 4, 6, 8 and 10 are now represented as combinations of the half-shift control bit and the unshifted dot bits.

Similarly, Figure 7.2a illustrates a hypothetical microvector character to be invoked by means of the lower case "q". Figure 7.2b is the same character translated into bit format for two PROMs, the first holding dots 0 thru 7, and the second holding the eighth dot. (The rationale for assigning the dot 8 data to BIT 3 of the second PROM will be discussed below.)

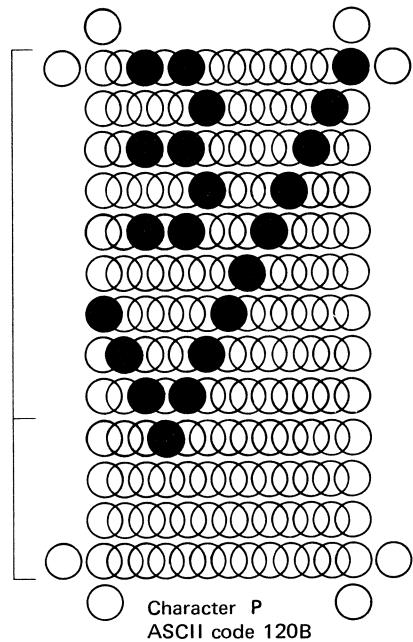
### RECOMMENDED PROM VENDORS AND THEIR DATA FORMATS

Two vendors are recommended as possible suppliers of 4096 bit (512 word x 8 bit) Bipolar PROMs suitable for use in the 02640-60053 printed circuit assembly. These are the following:

Monolithic Memories, Inc., Model 6340  
1165 E. Arques Avenue  
Sunnyvale, CA 94086

Intel Corporation, Model 3604  
3065 Bowers Avenue  
Santa Clara, CA 95051

Both Intel and MMI prefer to receive the PROM data in ASCII paper tape format. It is still in the better interest of the user to verify the preferred data format with their local manufacturer's representative before encoding the data. Appendices C and D list the data formats for MMI and Intel PROMs respectively. Both are very similar except for the use of H and L by MMI and P and N by Intel to represent the absence and presence of dots.



(a)

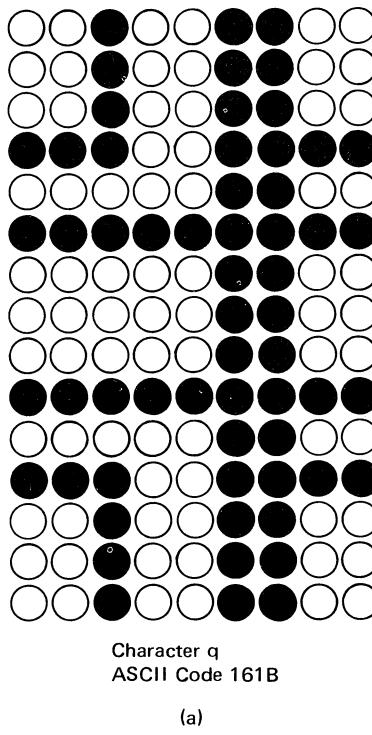
	BIT 0	BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7
HALF-SHIFT CONTROL	DOT 1	DOT 2	DOT 3	DOT 4	DOT 5	DOT 6	DOT 7	
0	0	0	0	0	0	0	0	0
1	0	0	1	1	0	0	0	1
2	1	0	0	1	0	0	1	0
3	0	0	1	1	0	0	1	0
4	1	0	0	1	0	1	0	0
5	0	0	1	1	0	1	0	0
6	1	0	0	0	1	0	0	0
7	0	1	0	0	1	0	0	0
8	1	1	0	1	0	0	0	0
9	0	0	1	1	0	0	0	0
10	1	0	1	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0

(b)

FIGURE 7.1  
(a) Hypothetical Alphanumeric Character as Designed on the Alphanumeric Dot Matrix Worksheet  
(b) The Same Character as Represented in Bit Format

## ENCODING ALPHANUMERIC CHARACTERS IN PROM

Once the alphanumeric characters are both defined in bit format and assigned a position on the ASCII chart, it is a straightforward process to encode the bits into the PROM format. Each character requires 16 consecutive words starting with word 0. The first character occupies words 0-15, the second 16-31, etc. The example of Figure 7.1 is to



(a)

(a) Hypothetical Microvector Character as Designed  
on the Microvector Dot Matrix Worksheet  
The Character is to be Invoked by Means of the "q" Key (161B)

be placed as the seventeenth character of the PROM containing the ASCII codes 100-137B. Hence, it would be encoded as words 256-271 of that PROM.

Figure 7.3 illustrates the same character in both MMI and Intel 4K PROM format. Note that the PROMs require the data to be encoded starting with the most significant bit whereas the half-shift control bit, BIT 0, is the least significant bit. A listing of the contents of a PROM then appears as the mirror image of the bit representation of characters (such as Figure 7.1b).

	BIT 0	BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 3
0	0	0	1	0	0	1	1	0	0
1	0	0	1	0	0	1	1	0	0
2	0	0	1	0	0	1	1	0	0
3	1	1	1	0	0	1	1	1	1
4	0	0	0	0	0	1	1	0	0
5	1	1	1	1	1	1	1	1	1
6	0	0	0	0	0	1	1	0	0
7	0	0	0	0	0	1	1	0	0
8	0	0	0	0	0	1	1	0	0
9	1	1	1	1	1	1	1	1	1
10	0	0	0	0	0	1	1	0	0
11	1	1	1	0	0	1	1	1	1
12	0	0	1	0	0	1	1	0	0
13	0	0	1	0	0	1	1	0	0
14	0	0	1	0	0	1	1	0	0
15	0	0	0	0	0	0	0	0	0

FIGURE 7.2

(b) The Same Character as Represented in Bit Format;  
Dots 0-7 are Contained in the First of the Two Microvector  
PROMs While Dot 8 is Stored as BIT3 of the Second PROM.

	BIT 7	BIT 0							
256-259	BHHHHHHHHF	BLHHHLLHHF	BHLHHLHHLF	BHLHLLHHHF					
260-263	BHHLHLHLHF	BHHLHLLHHF	BHHHLHHHLF	BHHHLHHLHF					
264-267	BHHHHLHLLLF	BHHHHLLHHHF	BHHHHHLHLHF	BHHHHHHHHHF					
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF					
256-259	BPPPPPPPPP	BNPPPNNNPF	BPNPPNPPNF	BPNPPNNPPF					
260-263	BPPNPNNPNF	BPPNPNNPPF	BPPPNPPPNF	BPPPNPPNPF					
264-267	BPPPPNPNNF	BPPPPNNPPF	BPPPPPNPNF	BPPPPPPPPP					
268-271	BPPPPPPPPP	BPPPPPPPPP	BPPPPPPPPP	BPPPPPPPPP					

(a)

(b)

FIGURE 7.3  
(a) Hypothetical Alphanumeric Character of Figure 7.1 as Encoded  
in an MMI 4K PROM  
The Character is to be Invoked by Means of the "P" Key  
(b) The Same Character as Encoded in an Intel 4K PROM

## ENCODING MICROVECTOR CHARACTERS IN PROM

The translation process for converting microvector characters in bit format to PROM format is essentially the same as for alphanumeric characters with regard to dots 0-7. Dot 8 of microvector characters must be encoded as one bit position of a second PROM, the Microvector Bit 8 PROM. Table 7.1 tabulates which bit of the Microvector Bit 8 PROM must be used for each 32 character PROM in the set.

Each word of this PROM is multiplexed over the four PROMs which can hold a complete 128 character set; the least significant four output bits (0-3) correspond to the eighth microvector dot in each of the 32 characters per quadrant of the complete set. As many bit columns of the microvector Bit 8 PROM will then be used as there are 32 character PROMs in the set.

Table 7.1 can be used to verify that the example character of Figure 7.2 would use the BIT 3 column of the Microvector Bit 8 PROM. Figure 7.4 illustrates the coding of the bit format of the example in both MMI and Intel 4K PROM format. Since the character is to appear as a lower case "q", then it would occupy words 272-287 of both PROMs.

DATA BIT USED FOR MICROVECTOR BIT 8

CHARACTER SET PROM	BIT 0	BIT 1	BIT 2	BIT 3
000-037B (N <sub>U</sub> - U <sub>S</sub> )	X			
040-077B (SP - ?)		X		
100-137B (@ - __)			X	
140-177B (` - DEL)				X

TABLE 7.1  
Microvector Bit 8 Assignment

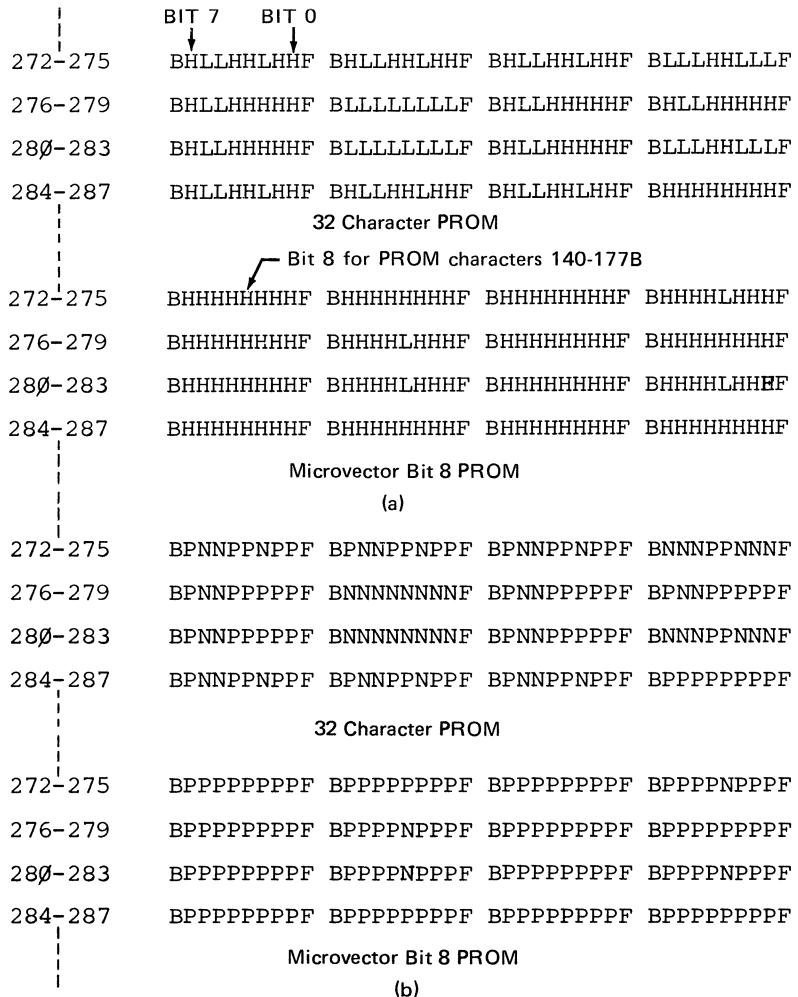


FIGURE 7.4  
(a) Hypothetical Microvector Character of Figure 7.2  
as Encoded in an MMI 4K PROM  
The Character is to be invoked by Means of the "q" Key  
The Microvector Bit 8 PROM Contents are Also Shown  
(b) The Same Character as Encoded in Intel 4K PROMs

## VIII. USE OF THE PROM CHARACTER BOARD

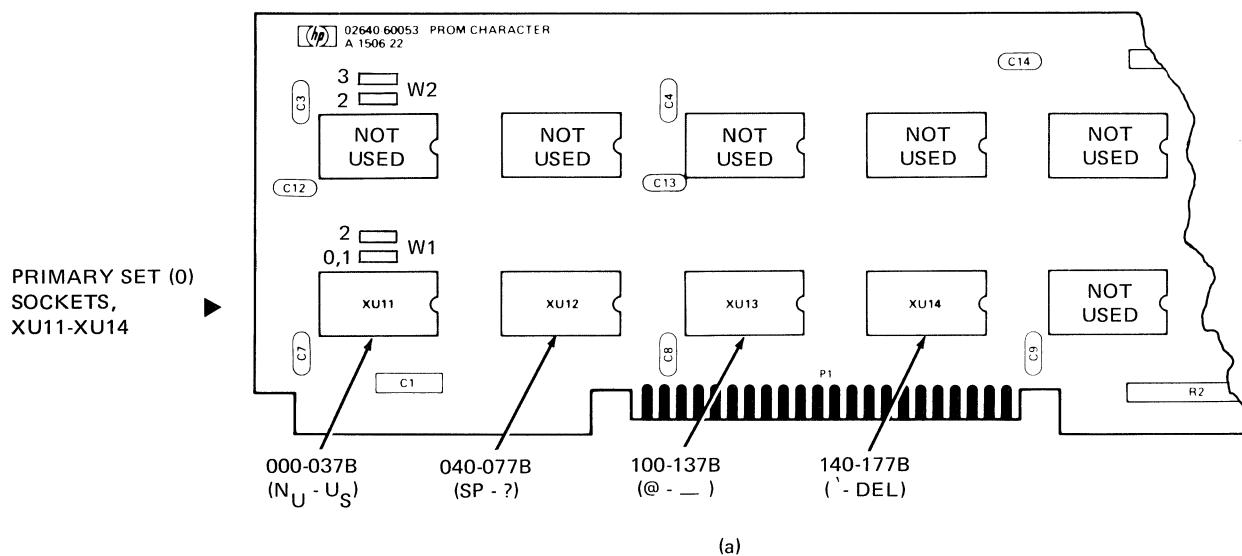
There are two configurations for the PROM Character Board. These are the replacement with custom PROM character sets of either the primary character set (SET0) or any one or two of the three available alternate sets, SET1, SET2, or SET3.

### REPLACEMENT OF THE PRIMARY SET

The primary character set may be replaced with a custom alphanumeric PROM set up to 128 characters in length. Figure 8.1a illustrates the jumper configuration and PROM sockets used for this purpose. An upper case set of 64 characters, by way of example, would occupy sockets

XU12 (040-077B) and XU13 (100-137B). The existing primary character set in ROM on the Display Control Board must be removed before attempting to replace the set with a PROM version. Also, the jumpers on the Display Control Board and the PROM Character Board must be configured as shown in Table 8.1.

The PROM Character Board is plugged into the 264XX backplane adjacent to the Display Control Board as is shown in Figure 8.1b. The two boards are connected together with the Connector Assembly (02640-60070) provided. Note that the correct orientation of the connector is with the handle in a downward position.



(a)

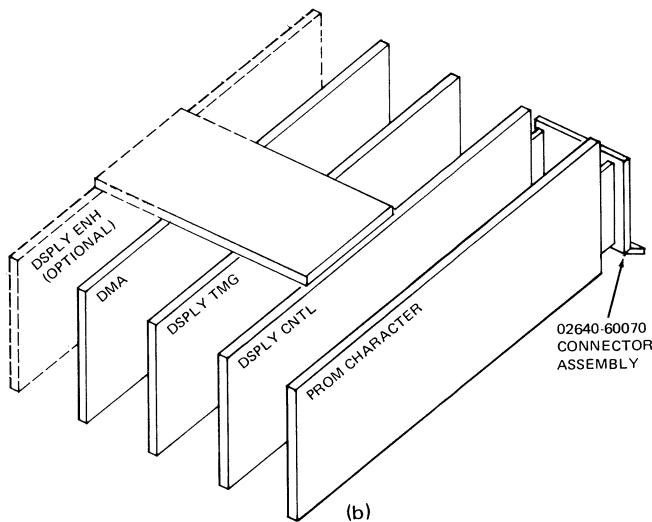


FIGURE 8.1  
Replacing the Primary Set (Set 0) with a PROM Version  
a) PROM Location and Jumper Configuration on the PROM Character Board. b) Display Subsystem Board Configuration.

## REPLACEMENT OF ALTERNATE SETS 1, 2, AND 3

Any one or two alternate sets may be replaced with custom PROM versions. Figure 8.2a illustrates the PROM sockets used for this purpose and their respective character assignments. Table 1 shows the jumper configuration for both alphanumeric and microvector character sets.

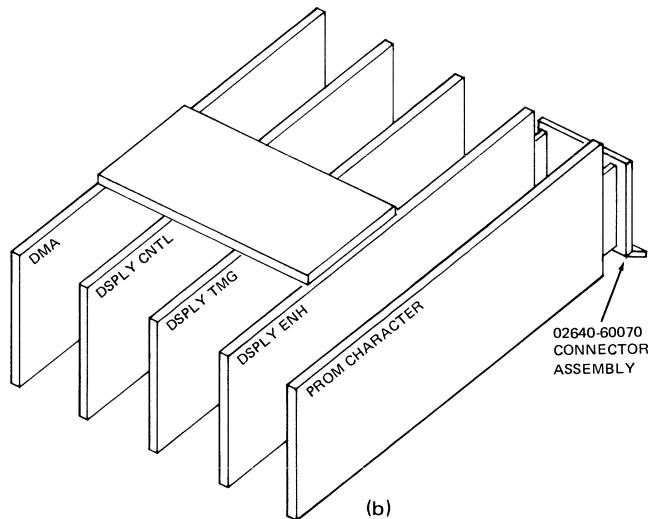
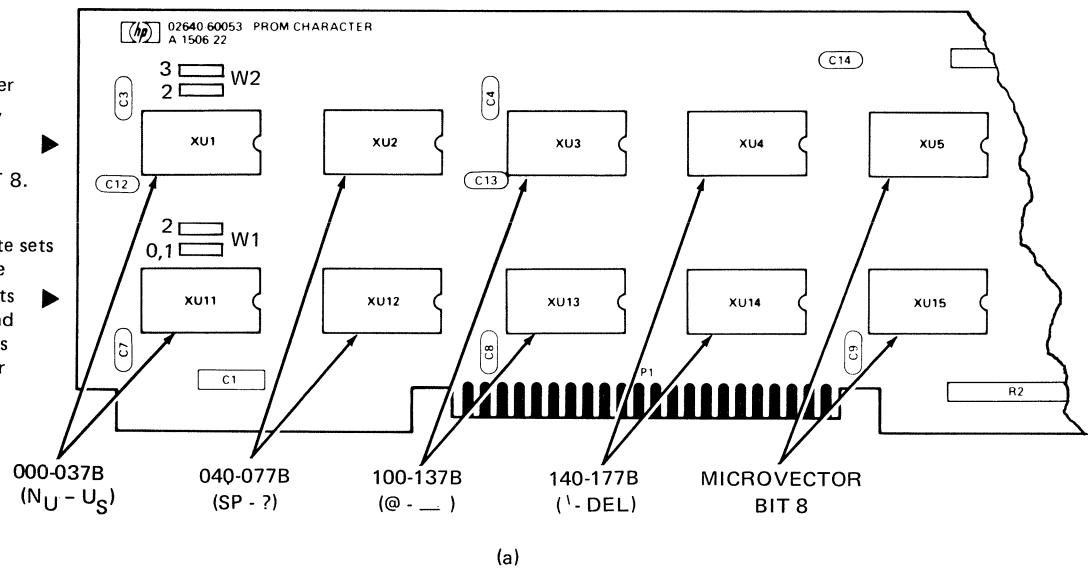
A set represented in PROM cannot simultaneously be represented in ROM on the Display Enhancement Board. Mixing of different sets is permitted. Thus alternate set 1 may be a Math Symbol Set or Line Drawing Set ROM

while alternate set 2 is a custom PROM set on the PROM Character Board. The jumper configuration for alternate character sets 1 and 2 would then be taken from the installation manual and Table 8.1 respectively.

The PROM Character Board is plugged into the 264XX backplane adjacent to the Display Enhancement Board as is shown in Figure 8.2b. The two boards are connected together with the Connector Assembly (02640-60070) provided. Note that the correct orientation of the connector is with the handle in a downward position.

Alternate sets 2 or 3, depending on the jumper location. Sockets XU1, XU2, XU3, and XU4 are used. XU5 is used for the microvector BIT 8.

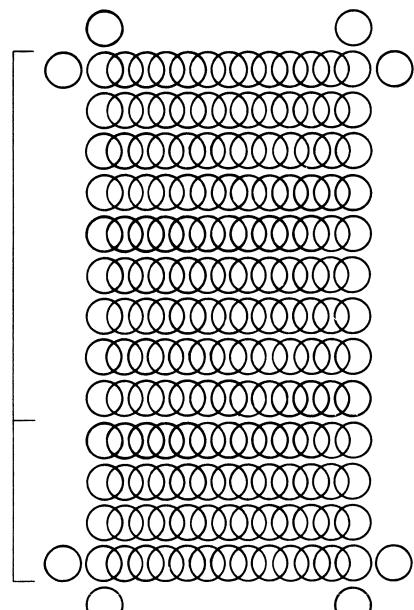
Primary set 0 or alternate sets 1 or 2, depending on the jumper location. Sockets XU11, XU12, XU13, and XU14 are used. XU15 is used for the microvector BIT 8.



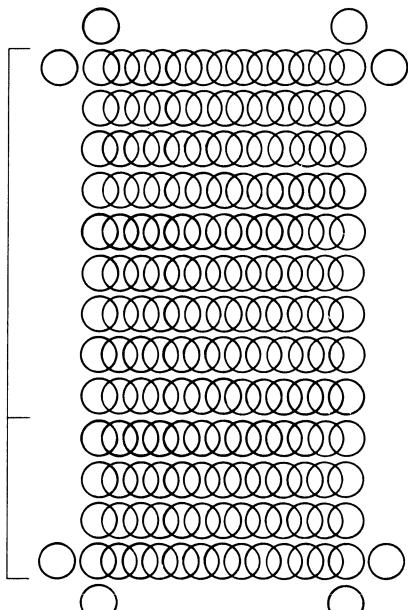
**FIGURE 8.2**  
Replacing Alternate Sets 1, 2, or 3 with PROM Versions  
on the PROM Character Board. a) PROM and Jumper  
Locations for Replacing Alternate Sets 1, 2, or 3.  
b) Display Subsystem Board Configuration.

TABLE 8.1  
Jumper Configurations

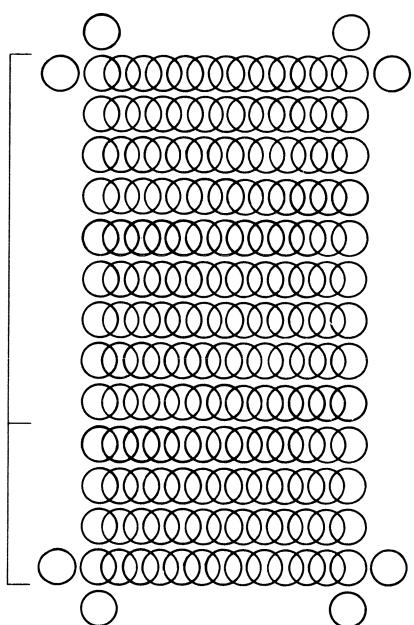
PROM REPLACEMENT SET	PROM CHARACTER BOARD				DISPLAY BOARD AFFECTED	
	JUMPER W1 POSITION	SOCKETS USED	JUMPER W2 POSITION	SOCKETS USED	BOARD NAME	JUMPER POSITION
SET 0	0,1	XU11–XU14	NOT USED	NOT USED	DSPY CNTL	IN
ALT SET 1	0,1	XU11–XU14 (ALSO XU15 IF SET 1 IS MICROVECTOR)	NOT USED	NOT USED	DSPY ENH	W1, W2 IN (W2 OUT IF SET 1 IS MICROVECTOR)
ALT SET 2	2	XU11–XU14 (ALSO XU15 IF SET 2 IS MICROVECTOR)	NOT USED	NOT USED	DSPY ENH	W3, W4 IN (W4 OUT IF SET 2 IS MICROVECTOR)
ALT SET 3	NOT USED	NOT USED	3	XU1–XU4 (ALSO XU5 IF SET 3 IS MICROVECTOR)	DSPY ENH	W5, W6 IN (W6 OUT IF SET 3 IS MICROVECTOR)
ALT SETS 1,2	0,1	SET 1 IN XU11–XU14 (ALSO XU15 IF SET 1 IS MICROVECTOR)	2	SET 2 IN XU1–XU4 (ALSO XU5 IF SET 2 IS MICROVECTOR)	DSPY ENH	W1, W2, W3, W4 IN (W2, W4 OUT IF SETS 1 AND/OR 2 RESPECTIVELY ARE MICROVECTOR)
ALT SETS 1,3	0,1	SET 1 IN XU11–XU14 (ALSO XU15 IF SET 1 IS MICROVECTOR)	3	SET 3 IN XU1–XU4 (ALSO XU5 IF SET 3 IS MICROVECTOR)	DSPY ENH	W1, W2, W5, W6 IN (W2, W6 OUT IF SETS 1 AND/OR 3 RESPECTIVELY ARE MICROVECTOR)
ALT SETS 2,3	2	SET 2 IN XU11–XU14 (ALSO XU15 IF SET 2 IS MICROVECTOR)	3	SET 3 IN XU1–XU4 (ALSO XU5 IF SET 3 IS MICROVECTOR)	DSPY ENH	W3, W4, W5, W6 IN (W4, W6 OUT IF SETS 2 AND/OR 3 RESPECTIVELY ARE MICROVECTOR)



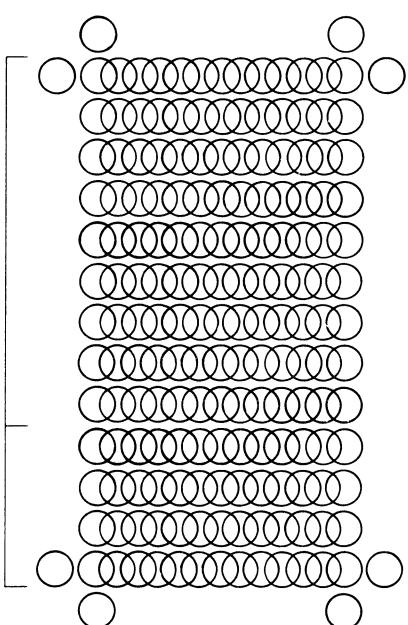
Character \_\_\_\_\_  
ASCII code \_\_\_\_\_



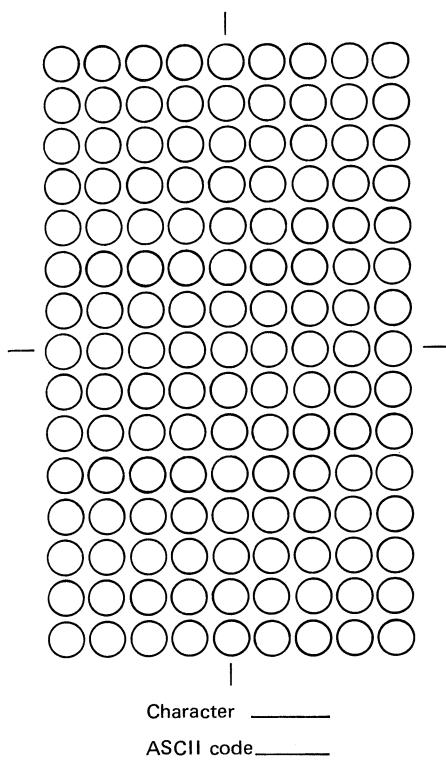
Character \_\_\_\_\_  
ASCII code \_\_\_\_\_



Character \_\_\_\_\_  
ASCII code \_\_\_\_\_

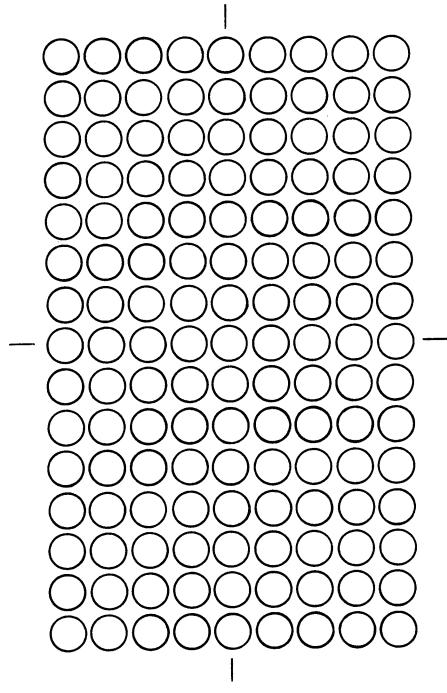


Character \_\_\_\_\_  
ASCII code \_\_\_\_\_



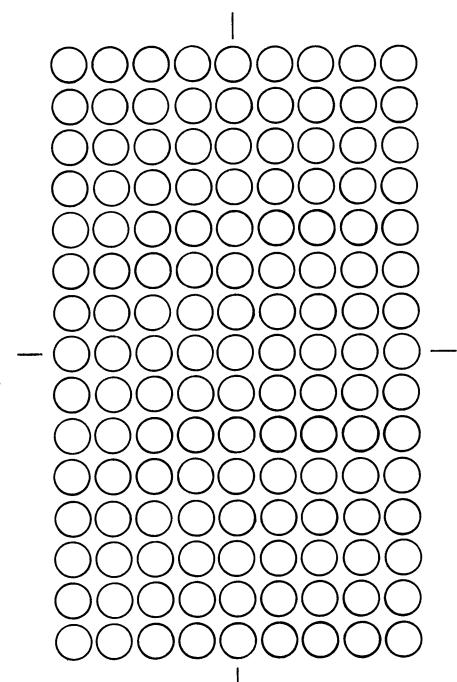
Character \_\_\_\_\_

ASCII code\_\_\_\_\_



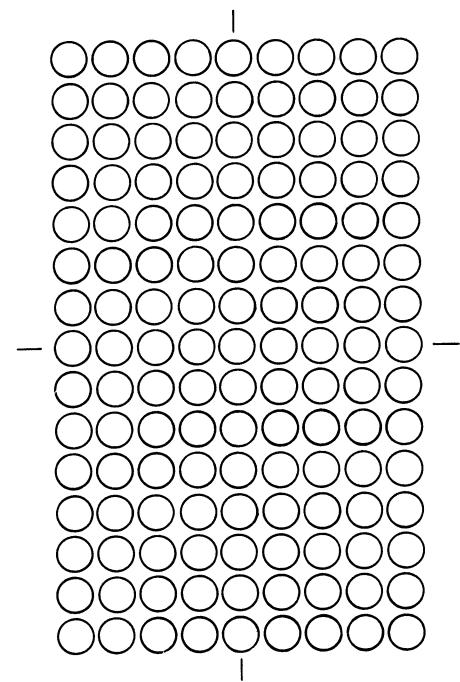
Character \_\_\_\_\_

ASCII code\_\_\_\_\_



Character \_\_\_\_\_

ASCII code\_\_\_\_\_



Character \_\_\_\_\_

ASCII code\_\_\_\_\_

## APPENDIX B Microvector Character Worksheet

## PROGRAMMING INFORMATION

### REQUIRED INFORMATION FOR MMI TO PROGRAM TO YOUR TRUTH TABLE

#### TRUTH TABLES

MMI can program devices at our facility from MMI truth table forms (available on request). For customers desiring to make their own forms, an example is shown below:

WORD NUMBER	PIN →	OUTPUTS							
		17	16	15	14	13	11	10	9
		O <sub>8</sub>	O <sub>7</sub>	O <sub>6</sub>	O <sub>5</sub>	O <sub>4</sub>	O <sub>3</sub>	O <sub>2</sub>	O <sub>1</sub>
0		H	H	H	L	H	L	H	H
1		L	H	L	H	L	H	L	H
.		.	.	.	.	.	.	.	.
511		L	H	H	H	H	H	H	L

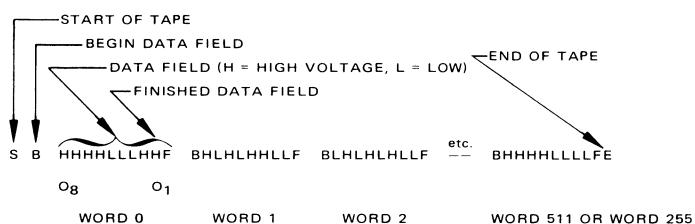
Note: A high voltage on the data out lines is signified by an "H." A low voltage on the data out lines is signified by an "L." The word number assumes positive logic on the address pins, so for example, word 511 = HHHHHHHH.

#### PAPER TAPE FORMAT

Truth tables can also be sent to MMI in an ASCII tape format. Information can be sent to us by air mail or TWX 910-339-9224. The tape reading equipment at MMI only recognizes ASCII characters S, B, H, L, F and E and interprets them respectively as Start, Begin a word, High data, Low data, Finish a word, and End of tape. All other characters such as carriage returns, line feeds, etc. are ignored so that comments and spaces may be sent in the data field to improve readability. Comments, however, should not use the characters S, B, H, L, F, E. Word addresses must begin with zero and count sequentially to word 511.

In order to assist the machine operator in determining where the heading information stops and the data field begins, 25 bell characters or rubout characters should precede the start of the truth table. Any type of paper tape (mylar, fanfold, etc.) is acceptable. Channel 1 is the most significant bit and channel 8 (parity) is ignored. Sprocket holes are located between channels 3 and 4. Note that the order of the outputs between characters B and F is O<sub>8</sub> to O<sub>1</sub>, not O<sub>1</sub> to O<sub>8</sub>.

A typical list of characters and their machine interpretations is shown on the next page.



The required heading information at the beginning of the tape is as follows:

CUSTOMER'S NAME AND PHONE \_\_\_\_\_ TRUTH TABLE NUMBER \_\_\_\_\_

CUSTOMER'S TWX NUMBER \_\_\_\_\_ NUMBER OF TRUTH TABLES \_\_\_\_\_

PURCHASE ORDER NUMBER \_\_\_\_\_ TOTAL NUMBER OF PARTS \_\_\_\_\_

MMI PART NUMBER \_\_\_\_\_ NUMBER OF PARTS OF EACH TRUTH TABLE \_\_\_\_\_

CUSTOMER SYMBOLIZED PART NUMBER \_\_\_\_\_ 25 BELL OR RUBOUT CHARACTERS \_\_\_\_\_

An example is shown below for a 256 × 4 PROM (6300)

BLARNEY ELECTRONICS 408-735-8104

TWX 911-338-9225

PO142

SBLLLHF BLLLLHF BLHLHF BLHHHF BLLHHF BHHHHF BLLLHF BLHLHF BLLLF

6300

BLLLF BLHLHF BLLHHF BHHHLF BHLLLF BLLHHF BHLLLF BLHHHF BLHLHF

0431

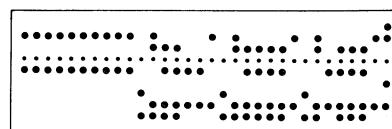
8 level  
TWX

12

1

3

3



## Input Format

### I. ROM and PROM Truth Table Format

Programming information should be sent in the form of computer punched cards or punched paper tape. When using the 7600C or MCS programmers, punched paper tape should be used. In all cases, a printout of the truth table should be accompanied with the order.

The following general format is applicable to the programming information sent to Intel:

1. A data field should start with the most significant bit and end with the least significant bit.
2. The data field should consist of P's and N's. A P is to indicate a high level output (most positive) and an N a low level output (most negative). If the programming information is sent on a punched paper tape, then a start character, B, and an end character, F, must be used in the data field.

#### A. PUNCHED CARD FORMAT

An 80 column Hollerith card (preferably interpreted) punched by an IBM 026 or 029 keypunch should be submitted. The first card will be a title card. The format is as follows:

##### 1. Title Card

			DECIMAL NUMBER INDICATING THE TRUTH TABLE NUMBER	
			NO. OF OUTPUTS	
			4 or 8	
TITLE CARD DESIGNATION	CUSTOMER'S COMPANY NAME	CUSTOMER'S DIVISION OR LOCATION	INTEL P/N	
	SYZ ELECTRONICS CORP	SANTA CLARA CALIF	12345	68 00
	<img alt="Title Card Data Fields showing binary patterns for			

**B. PAPER TAPE FORMAT**

The paper tapes which should be used are the:

1. 1" wide paper tape using 7 or 8 bit ASCII code, such as a model 33 ASR teletype produces, or the
2. 11/16" wide paper tape using 5 bit Baudot code, such as a Telex produces.

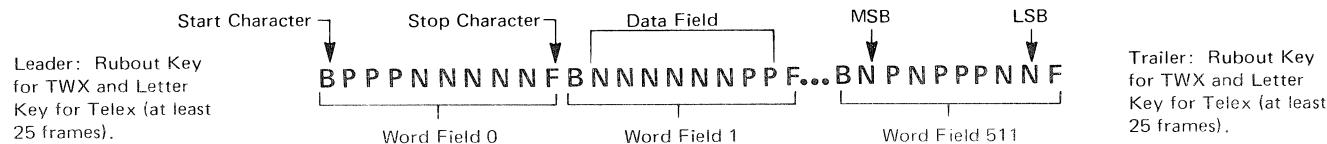
The format requirements are as follows:

1. All word fields are to be punched in consecutive order, starting with word field Ø (all addresses low). There must be exactly 512 word fields for the 512 x 8 PROM organization.
2. Each word field must begin with the start character B and end with the stop character F. There must be exactly 8 or 4 data characters between the B and F for the N x 8 or N x 4 organization respectively.

NO OTHER CHARACTERS, SUCH AS RUBOUTS, ARE ALLOWED ANYWHERE IN A WORD FIELD. If in preparing a tape, an error is made, the entire word field, including the B and F must be rubbed out. Within the word field, a P results in a high level output, and an N results in a low level output.

3. Preceding the first word field and following the last word field, there must be a leader/trailer length of at least 25 characters. This should consist of rubout punches (letter key for Telex tapes)
4. Between word fields, comments not containing B's or F's may be inserted. Carriage return and line feed characters should be inserted (as a "comment") just before each word field (or at least between every four word fields). When these carriage returns, etc. are inserted, the tape may be easily listed on the teletype for purposes of error checking. The customer may also find it helpful to insert the word number (as a comment) at least every four word fields.
5. Included in the tape before the leader should be the customer's complete Telex or TWX number and if more than one pattern is being transmitted, the ROM pattern number.
6. MSB and LSB are the most and least significant bit of the device outputs. Refer to the data sheet for the pin numbers.

Example of 512 x 8 format (N = 512):



BASIC ROMAN CHARACTER SET (SPACE)-? (40-77R)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1		1			X	X		1		X	X		X	X		1							
2			2		X	X		2		X	X		X	X		2				X	X		
3				3	X	X		3		X	X		X	X		3				X	X		
4					4	X	X		4		X	X		X	X		4			X	X	X	X
5						5	X	X		5						5			X	X	X	X	
6						6	X	X		6						6			X	X	X	X	X
7						7				7						7			X	X			
8						8				8						8			X	X			
9						9	X	X		9						9							
10						10				10						10							
11						11				11						11							
12						12				12						12							
13						13				13						13							
14						14				14						14							
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1			X					1		X	X		X			1				X	X		
2		X	X	X				2		X	X	X				2				X	X		
3	X	X	X	X				3		X	X	X				3				X	X		
4	X	X						4			X					4				X	X		
5		X	X	X				5			X					5							
6		X	X	X				6			X					6							
7	X	X	X	X				7		X	X	X				7							
8		X	X	X				8		X	X	X				8							
9		X						9		X	X	X				9							
10								10								10							
11								11								11							
12								12								12							
13								13								13							
14								14								14							
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1			X	X				1		X	X					1							
2		X	X					2		X	X					2							
3	X	X						3		X	X					3				X			
4	X	X						4		X	X					4				X			
5	X	X						5		X	X					5				X	X	X	X
6	X	X						6		X	X					6				X			
7	X	X						7		X	X					7				X			
8		X						8		X	X					8							
9		X						9		X	X					9							
10								10								10							
11								11								11							
12								12								12							
13								13								13							
14								14								14							
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0								0							
1		1						1								1							
2		2						2								2							
3		3						3								3							
4		4						4								4							
5		5		X	X	X	X	5								5							
6		6						6								6							
7		7						7								7							
8	X	X						8			X	X				8							
9	X							9			X	X				9							
10	X							10								10							
11	X							11								11							
12								12								12							
13								13								13							
14								14								14							

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									0								
1		x	x	x				1		x					1		x	x	x				1		x	x	x	x				
2	x		x					2	x	x					2	x		x				2	x		x			x				
3	x		x					3	x	x					3	x			x			3	x			x			x			
4	x		x					4	x						4	x			x			4				x			x			
5	x		x					5	x						5	x	x	x	x			5	x	x	x	x			x			
6	x		x					6	x						6	x		x				6				x			x			
7	x		x					7	x						7	x			x			7				x			x			
8	x		x					8	x						8	x		x				8				x			x			
9	x	x	x					9	x						9	x	x	x	x	x		9	x	x	x	x			x			
10								10							10							10										
11								11							11							11										
12								12							12							12										
13								13							13							13										
14								14							14							14										
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0									
1			x					1	x	x	x	x	x	x	1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x	x	
2		x	x					2	x						2	x		x		x		2			x			x			x	
3	x		x					3	x						3	x			x			3				x			x			
4	x		x					4	x						4	x			x			4				x			x			
5	x		x					5	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x		
6	x	x	x	x	x	x		6							6	x	x	x	x	x	x	6				x			x			
7	x		x					7							7	x		x		x		7			x			x			x	
8	x		x					8	x						8	x		x		x		8	x	x	x	x			x			
9	x	x	x	x	x	x		9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	x		
10								10							10							10			x							
11								11							11							11			x							
12								12							12							12				x						
13								13							13							13				x						
14								14							14							14				x						
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0									
1		x	x	x	x	x		1	x	x	x	x	x	x	1							1										
2	x		x	x	x	x		2	x		x	x	x	x	2	x	x	x	x	x	x	2	x		x	x	x	x	x	x	x	
3	x		x	x	x	x		3	x		x	x	x	x	3	x	x	x	x	x	x	3	x		x	x	x	x	x	x	x	
4	x	x		x	x	x		4	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	x	x	x	
5	x	x	x	x	x	x		5	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x	x	
6	x	x	x	x	x	x		6	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	x	x	x	
7	x	x	x	x	x	x		7			x	x	x	x	7	x	x	x	x	x	x	7			x	x	x	x	x	x	x	
8	x	x	x	x	x	x		8		x	x	x	x	x	8	x	x	x	x	x	x	8		x	x	x	x	x	x	x	x	
9	x	x	x	x	x	x		9		x	x	x	x	x	9	x	x	x	x	x	x	9		x	x	x	x	x	x	x	x	
10								10							10							10										
11								11							11							11										
12								12							12							12										
13								13							13							13										
14								14							14							14										

BASIC ROMAN CHARACTER SET (SPACE)-? (40-77B)

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 LHHLLHHH	1 LLLHHLLH	1 HHHHHHHHH
2 HHHHHHHHH	2 LHHLLHHH	2 LLLHHLLH	2 LHHHLHLH
3 HHHHHHHHH	3 LHHLLHHH	3 LLLHHLLH	3 HHHHLHLH
4 HHHHHHHHH	4 LHHLLHHH	4 LLLHHLLH	4 LHLLLLLH
5 HHHHHHHHH	5 LHHLLHHH	5 HHHHHHHHH	5 HHMLHLHH
6 HHHHHHHHH	6 LHHLLHHH	6 HHHHHHHHH	6 LLLLHLHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH	7 HHHLHLHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH	8 LLHLHHHH
9 HHHHHHHHH	9 LHHLLHHH	9 HHHHHHHHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHLHHH	1 MHLLHLH	1 HHHHHHHHH	1 LHHHLHHH
2 HHHLLLHH	2 LLHLHLHH	2 LHLHLHHH	2 HHHLLLHH
3 HHLHLHLH	3 HHLLHLHH	3 HHLLHLHH	3 LHHLLHHH
4 HHLHLHLH	4 LHHHLHHH	4 LHLHLHHH	4 HHLLLHHH
5 HHHLLLHH	5 HHHLHHH	5 HHLLHHH	5 HHHHHHHHH
6 HHHLHLHH	6 LHHLHHHH	6 LHLHLHLH	6 HHHHHHHHH
7 HHLHLHLH	7 HHHLHLHH	7 HHLHLHLH	7 HHHHHHHHH
8 HHHLLLHH	8 LHLHLHLH	8 LHLHLHLH	8 HHHHHHHHH
9 HHHLHLHH	9 HHLHLHLH	9 HHHLHLHL	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LHHHLHHH	1 LHLHHHHH	1 HHHHHHHHH	1 HHHHHHHHH
2 HHHLLLHH	2 HHHLHHHH	2 HHHHHHHHH	2 HHHHHHHHH
3 LHLHLHHH	3 LHHHLHHH	3 HHHLHLHH	3 HHHHLHLH
4 HHHLHHHH	4 HHHLHHHH	4 LHLHLHHH	4 HHHLHLHH
5 HHLLHHHH	5 HHHLHHHH	5 HHLLHLHH	5 HHLLLHHH
6 HHLLHHHH	6 HHHLHHHH	6 LHHHLHHH	6 HHHLHLHH
7 LHLHLHHH	7 LHHHLHHH	7 HHHLHLHH	7 HHHLHLHH
8 HHHLHHHH	8 HHHLHHHH	8 HHHLHHHH	8 HHHLHHHH
9 LHHHLHHH	9 LHHHLHHH	9 HHHLHHHH	9 HHHLHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHLH
2 HHHHHHHHH	2 HHHHHHHHH	2 HHHHHHHHH	2 LHHHHHLHH
3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHLHLH
4 HHHHHHHHH	4 HHHHHHHHH	4 HHHHHHHHH	4 LHHHLHLH
5 HHHHHHHHH	5 HHLLLLHH	5 HHHHHHHHH	5 HHHLHLHH
6 HHHHHHHHH	6 HHHLHHHH	6 HHHHHHHHH	6 LHHHLHHHH
7 HHHHHHHHH	7 HHHLHHHH	7 HHHHHHHHH	7 HHHLHHHH
8 LHLHLHHH	8 HHHLHHHH	8 LHLHLHHH	8 LHLHHHHH
9 HHHLHLHH	9 HHHHLHHH	9 LHLHLHHH	9 HHLHHHHH
10 LHHHLHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHLHLHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHLLLHH	1 HHHLLLHH	1 LHLLLLHH
2 LHLHHLHH	2 HHHLLLHH	2 HHHLHHHL	2 LLHHHHHLH
3 HHLHHHLH	3 HHLHLHHH	3 LLHHHHHLH	3 HHHHHHHL
4 HHLHHHLH	4 HHHLHLHH	4 LHHHHHLH	4 LHHHHHHHL
5 HHLHHHLH	5 HHHLHLHH	5 LHHHLHHH	5 LHMLLLHH
6 HHLHHHLH	6 HHHLHLHH	6 HHHLHHHH	6 LHHHHHLH
7 HHLHHHLH	7 HHHLHLHH	7 HHHLHHHH	7 HHHHHHHL
8 LHLHHLHH	8 HHHLHLHH	8 LLHHHHHH	8 LLHHHHHLH
9 HHHLLLHH	9 HHHLHLHH	9 LLLLHLH	9 LHLLLLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHHHHLHH	1 LLLLHLH	1 LHLLLHH	1 LLLLHLH
2 LHHHLHH	2 LLHHHHHH	2 LLHHHLH	2 LHHHHHLH
3 LHHHLHH	3 LLHHHHHH	3 HLHHHHHH	3 HHHHHLH
4 LHLHHLHH	4 LLHHHHHH	4 HLHHHHHH	4 LHHHLHH
5 LLHHHLHH	5 LLLLHLH	5 HLHLHHH	5 HHHLHLHH
6 LLLLLLH	6 LHHHHHLH	6 HLLHHHL	6 LHHHLHHH
7 LHHHHHLH	7 LHHHHHLH	7 HLHHHHHL	7 HHHLHLHH
8 LHHHHHLH	8 LLHHHHHL	8 LLHHHHHL	8 LHHHLHHH
9 LHHHHHLH	9 LHLLLLHH	9 LHLLLLHH	9 HHHLHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHLLLHH	1 LHLLLHH	1 HHMMHHHH	1 HHMMHHHH
2 LLHHHHHL	2 LLHHHHHL	2 HHMMHHHH	2 HHMMHHHH
3 HLHHHHHL	3 HLHHHHHL	3 HHMMHHHH	3 HHMMHHHH
4 LLHHHHHL	4 HLHHHHHL	4 LHMLHHH	4 LHMLHHH
5 LHMLHHH	5 HLMLHHH	5 LMMLHHH	5 LHMMLHHH
6 LLHHHHHL	6 HHMMHHHH	6 HHMMHHHH	6 HHMMHHHH
7 HLHHHHHL	7 HHMMHHHH	7 HHMMHHHH	7 HHMMHHHH
8 LLHHHHHL	8 LLHHHHHL	8 LMMLHHH	8 LHMMLHHH
9 LHMLHHH	9 LHMLHHH	9 LMMLHHH	9 LHMMLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 LHHHLHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHLHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHLLLHH
2 HHHHHLLH	2 HHMMHHHH	2 HHLLHHHH	2 HHLLHHHL
3 HHHHLHHH	3 HHMMHHHH	3 HHLLHHHH	3 HHLLHHHL
4 HHMLHHH	4 HHMLHHH	4 HHMLHHH	4 LHHHLHHH
5 HHLLHHHH	5 HHMMHHHH	5 HHMLHHH	5 LHMMLHHH
6 HHMLHHH	6 HHMLHHH	6 HHMLHHH	6 HHMLHHH
7 HHMLHHH	7 HHMLHHH	7 HHMLHHH	7 HHMLHHH
8 HHMLHHH	8 HHMLHHH	8 HHMLHHH	8 HHMLHHH
9 HHMLHHH	9 HHMLHHH	9 HHMLHHH	9 HHMLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

BASIC ROMAN CHARACTER SET

HEWLETT-PACKARD CO.

(SPACE)-? (40-77B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGG

0-	3	S	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
4-	7		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
8-	11		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
12-	15		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
16-	19		BHHHHHHHHF	BHHHLLHHLF	BHHHLLHHLF	BHHHLLHHLF
20-	23		BHHHLLHHLF	BHHHLLHHLF	BHHHLLHHLF	BHHHHHHHHF
24-	27		BHHHHHHHHF	BHHHLLHHLF	BHHHHHHHHF	BHHHHHHHHF
28-	31		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
32-	35		BHHHHHHHHF	BHLLHHLLL	BHLLHHLLL	BHLLHHLLL
36-	39		BHLLHHLLL	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
40-	43		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
44-	47		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
48-	51		BHHHHHHHHF	BHHHHHHHHF	BHLHLHHHL	BHLHLHHHF
52-	55		BHLHLHHHL	BHLHLHHHL	BHLHLHHHL	BHLHLHHHF
56-	59		BHLHLHHHL	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
60-	63		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
64-	67		BHHHHHHHHF	BHHHLHHHF	BHHLLHHHF	BHLHLHLHHF
68-	71		BHHHLHLHF	BHHLLHHHF	BHLHLHHHF	BHLHLHLHF
72-	75		BHHLLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
76-	79		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
80-	83		BHHHHHHHHF	BHLHLHHHF	BHLHLHHLF	BHLHLHHHF
84-	87		BHLHLHHHF	BHHHLHHHF	BHHHLHHHF	BHLHLHHHF
88-	91		BHLHLHHHF	BHLHLHHHF	BHHHHHHHHF	BHHHHHHHHF
92-	95		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
96-	99		BHHHHHHHHF	BHHHHHHHHF	BHHLLHHLF	BHHHLHLHHF
100-103			BHHHLLHHLF	BHHHLLHHHF	BHLHLHLHF	BHLHLHLHF
104-107			BHHHLLHLHF	BHLHLHHHF	BHHHHHHHHF	BHHHHHHHHF
108-111			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
112-115			BHHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHHLLHHLF
116-119			BHHHLLHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
120-123			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
124-127			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
128-131			BHHHHHHHHF	BHHLLHHHF	BHHLLHHHF	BHHHLLHHLF
132-135			BHHHHLLHHF	BHHHLLHHHF	BHHHHLLHHF	BHHHLLHHLF
136-139			BHHHLLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
140-143			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
144-147			BHHHHHHHHF	BHHHLLHHHF	BHHHLLHHHF	BHHHLLHHLF
148-151			BHLLHHHHHF	BHLLHHHHHF	BHLLHHHHF	BHLLHHHHF
152-155			BHLLHHHHF	BHHHLLHLF	BHHHHHHHHF	BHHHHHHHHF
156-159			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
160-163			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHLHLHHF
164-167			BHHHLLHHHF	BHHHLLHHHF	BHHHLLHHHF	BHHHLHLHHF
168-171			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
172-175			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
176-179			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHLHHHHF
180-183			BHHHLHHHHF	BHLLLLLHHF	BHHHLHHHF	BHHHLHHHF
184-187			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
188-191			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
192-195			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
196-199			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
200-203			BHHHLLHHLF	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF
204-207			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
208-211			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
212-215			BHHHHHHHHF	BHLLLLLHHF	BHHHHHHHHF	BHHHHHHHHF
216-219			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
220-223			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
224-227			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
228-231			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
232-235			BHHHLLHHLF	BHHHLLHHHF	BHHHHHHHHF	BHHHHHHHHF
236-239			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
240-243			BHHHHHHHHF	BHLHHHHHHF	BHLHHHHHF	BHLHHHHHF
244-247			BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
248-251			BHHHHHLHHF	BHHHHHLHHF	BHHHHHHHHF	BHHHHHHHHF
252-255			BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF

256-259	BHHHHHHHHHF	BHHLLLHHHF	BHHLHHHLHF	BHLHHHLHHF
260-263	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
264-267	BHHLHHHLHF	BHHLLLHHHF	BHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHLHHHHF	BHHLLHHHF	BHHHLHHHF
276-279	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
280-283	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHLLLHHHF	BHLHHHLHF	BHLHHHHLF
292-295	BHLHHHHHLF	BHHLLLHHHF	BHHHHLHHHF	BHHHHHLHHF
296-299	BHHHHHHHLF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHLLLHLHF	BHLHHHHHLF	BLHHHHHHHF
308-311	BHLHHHHHLF	BHHLLLHLHF	BHLHHHHHLF	BLHHHHHHHF
312-315	BHLHHHHHLF	BHHLLLHLF	BHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHF	BHHLHHHHHLF	BHHLLHHHF	BHHLHLHHLF
324-327	BHHLHHHLHF	BHHLHHHHLF	BHLLLHLF	BHHLHHHHLF
328-331	BHHLHHHHLF	BHHLHHHHLF	BHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHF	BHLLLLLHF	BHHHHHHHLF	BHHHHHHHLF
340-343	BHHHHHHHLF	BHLLLLLHF	BHLHHHHHLF	BHLHHHHHLF
344-347	BHLHHHHHLF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHF	BHLLLLLHF	BHLHHHHHLF	BHHHHHHHLHF
356-359	BHHHHHHHLF	BHLLLHLHF	BLHHHHHLHF	BLHHHHHLHF
360-363	BHLHHHHHLF	BHLLLHLHF	BHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHF	BHLLLLLHF	BHLHHHHHLF	BHLHHHHHHF
372-375	BHLHHHHHLF	BHHLHHHHHF	BHHMLHHHF	BHHHLHHHF
376-379	BHHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHF	BHLLLLLHF	BLHHHHHLF	BLHHHHHLHF
388-391	BHLHHHHHLF	BHLLLLLHF	BHLHHHHHLF	BLHHHHHLHF
392-395	BHLHHHHHLF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHF	BHLLLHLHF	BHLHHHHHLF	BLHHHHHLHF
404-407	BLLHHHHHLF	BLHLLLHHF	BLHHHHHHF	BLHHHHHHHF
408-411	BHLHHHHHLF	BHLLLHLHF	BHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
420-423	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
424-427	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
436-439	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
440-443	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHF	BHHHHHHHHF	BHLLLHHHF	BHHLLHHHF
452-455	BHHHLHHHF	BHHHHHLHF	BHHHLHHHF	BHHLLHHHF
456-459	BHLHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
468-471	BHLLLHLHF	BHHHHHHHHF	BHLLLHLHF	BHHHHHHHHHF
472-475	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHF	BHHHHHHHHF	BHHHLHHHF	BHHHLHHHF
484-487	BHHLLHHHF	BHLHHHHHF	BHLHHHHHF	BHLHHHHHF
488-491	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHF	BHLLLHHHF	BHLHHHLHF	BHLHHHLHF
500-503	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
504-507	BHHHHHHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF E

BASIC ROMAN CHARACTER SET #-(UNDERLINE) (100-137B)

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

Ø		Ø		Ø		Ø	
1	X X X X X	1	X X X	1	X X X X X X X	1	X X X
2	X	2	X X	2	X	2	X
3	X X X X X	3	X X	3	X	3	X
4	X X X X X	4	X X	4	X X	4	X
5	X X X X X	5	X X	5	X X X X X	5	X
6	X X X X X	6	X X X X X	6	X X	6	X
7	X X X X X	7	X X	7	X X	7	X
8	X X X X X	8	X X	8	X X	8	X X
9	X X X X X	9	X X	9	X X X X X X X	9	X X X
10		10		10		10	
11		11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

Ø		Ø		Ø		Ø	
1	X X X X X	1	X X X X X X X	1	X X X X X X X	1	X X X
2	X	2	X	2	X	2	X
3	X	3	X	3	X	3	X
4	X	4	X	4	X	4	X
5	X	5	X X X X	5	X X X X	5	X X X
6	X	6	X	6	X	6	X
7	X	7	X	7	X	7	X
8	X	8	X	8	X	8	X
9	X X X X X	9	X X X X X X X	9	X X X X X X X	9	X X X
10		10		10		10	
11		11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

Ø		Ø		Ø		Ø	
1	X	1	X X X	1	X	1	X
2	X	2	X X	2	X	2	X
3	X	3	X X	3	X	3	X
4	X	4	X X	4	X	4	X
5	X X X X X X X	5	X X	5	X X	5	X X
6	X	6	X X	6	X X	6	X X
7	X	7	X X	7	X X	7	X X
8	X	8	X X	8	X X	8	X X
9	X X X X X X X	9	X X X	9	X X X	9	X X X
10		10		10		10	
11		11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

1 2 3 4 5 6 7

Ø		Ø		Ø		Ø	
1	X	1	X X X X X	1	X	1	X X X X X
2	X	2	X X X X X	2	X	2	X X X X X
3	X	3	X X X X X	3	X X X	3	X X X X X
4	X	4	X X X X X	4	X X X	4	X X X X X
5	X	5	X X X X X	5	X X X X	5	X X X X X
6	X	6	X X X X X	6	X X X X	6	X X X X X
7	X	7	X X X X X	7	X X X X	7	X X X X X
8	X	8	X X X X X	8	X X X X	8	X X X X X
9	X X X X X X X	9	X X X X X X X	9	X X X X X X X	9	X X X X X X X
10		10		10		10	
11		11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7										
0								0							0																		
1	x	x	x	x	x			1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x										
2	x			x				2	x		x			x	2	x		x		x		x		x									
3	x		x					3	x			x			3	x			x		x		x		x								
4	x			x				4	x				x		4	x		x		x		x		x		x							
5	x	x	x	x	x			5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x	x	x	x							
6	x							6	x	x	x		x		6	x	x	x		x		x		x		x		x					
7	x							7	x	x	x		x		7	x	x	x		x		x		x		x		x					
8	x							8	x		x		x		8	x	x	x		x		x		x		x		x					
9	x							9	x	x	x	x	x	x	9	x		x	x	x	x	x	x	x	x	x	x						
10								10							10																		
11															11																		
12															12																		
13															13																		
14															14																		
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7										
0								0							0																		
1	x	x	x	x	x	x	x	1	x		x		x		1	x		x		x		x		x		x		x					
2	x							2	x		x		x		2	x		x		x		x		x		x		x					
3	x							3	x		x		x		3	x		x		x		x		x		x		x					
4	x							4	x		x		x		4	x		x		x		x		x		x		x					
5	x							5	x		x		x		5	x		x		x		x		x		x		x					
6	x							6	x		x		x		6	x		x		x		x		x		x		x					
7	x							7	x		x		x		7	x		x		x		x		x		x		x					
8	x							8	x		x		x		8	x		x		x		x		x		x		x					
9	x							9	x		x		x		9	x	x	x	x	x	x	x	x	x	x	x	x	x					
10								10							10																		
11															11																		
12															12																		
13															13																		
14															14																		
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7										
0								0							0																		
1	x			x				1	x		x		x		1	x	x	x	x	x	x	x	x	x	x	x	x	x					
2	x		x					2	x		x		x		2	x		x		x		x		x		x		x		x			
3	x	x						3	x	x		x		x	3	x		x		x		x		x		x		x		x			
4	x	x						4	x	x	x		x		4	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
5	x		x					5	x	x	x		x		5	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
6	x	x						6	x		x		x		6	x		x		x		x		x		x		x		x			
7	x	x						7	x		x		x		7	x		x		x		x		x		x		x		x			
8	x	x						8	x		x		x		8	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
9	x	x						9	x	x	x		x		9	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
10								10							10																		
11															11																		
12															12																		
13															13																		
14															14																		

BASIC ROMAN CHARACTER SET #-(UNDERLINE) (100-1378)

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LHLLLLLHH	1 LHHLLHHH	1 HLLLLLLH	1 HHHLLLLHH
2 HHLHHHHHL	2 HHHLHLHH	2 HHLHHHHHL	2 HHLHHHHHL
3 LLHLLHLH	3 LHLHLHHH	3 HHLLHHHL	3 LLHHHHHLH
4 HLHLHLHL	4 HHLHHHLH	4 HHLHHHHHL	4 LLHHHHHHH
5 HLHLHLHL	5 LLHHHHHLH	5 LLHLLLLH	5 LLHHHHHHH
6 HLHLLHL	6 LLLLLLH	6 HHLLHHHL	6 LLHHHHHHH
7 LLHHHHLLH	7 LLHHHHHLH	7 HHLLHHHL	7 LLHHHHHLH
8 HHLLHHHHH	8 LLHHHHHLH	8 HHLLHHHL	8 HHLLHHHLH
9 LHLLLLLHH	9 LLHHHHHLH	9 HLLLHHHL	9 HHHLLLLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLLLLLHH	1 LLLLLLH	1 LLLLLLH	1 HHLLLHH
2 HHLHHHHHL	2 LLHHHHHHH	2 LLHHHHHHH	2 HHLHHHHHL
3 HHHLHHHH	3 LLHHHHHHH	3 LLHHHHHHH	3 LLHHHHHHH
4 HHLHHHHHL	4 LLHHHHHHH	4 LLHHHHHHH	4 HLHHHHHHH
5 HHLHHHHHL	5 LLLLHHHH	5 LLLLHHHH	5 HLHHHLLL
6 HHLHHHHHL	6 LLHHHHHHH	6 LLHHHHHHH	6 HLHHHHHL
7 HHHLHHHH	7 LLHHHHHHH	7 LLHHHHHHH	7 LLHHHHHLH
8 HHLHHHHHL	8 LLHHHHHHH	8 LLHHHHHHH	8 HHLLHHHLH
9 HLLLHHHH	9 LLLLLLH	9 LLHHHHHHH	9 HHHLLLLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLHHHHHLH	1 HHHLLLHH	1 LHHHHHLH	1 LLHHHHHLH
2 LLHHHHHLH	2 HHHLHHHH	2 LHHHHHLH	2 LLHHHLHH
3 LLHHHHHLH	3 HHHLHHHH	3 LHHHHHLH	3 LLHHHLHH
4 LLHHHHHLH	4 HHHLHHHH	4 LHHHHHLH	4 LLHLHHHH
5 LLLLHHHH	5 HHHLHHHH	5 LHHHHHLH	5 LLLHHHHHH
6 LLHHHHHLH	6 HHHLHHHH	6 LHHHHHLH	6 LLHLHHHH
7 LLHHHHHLH	7 HHHLHHHH	7 LHHHHHLH	7 LLHHHLHH
8 LLHHHHHLH	8 HHHLHHHH	8 LHHHHHLH	8 LLHHHLHH
9 LLHHHHHLH	9 HHHLHHHH	9 LHHHHHLH	9 LLHHHLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLHHHHHHH	1 HLHHHHHL	1 LLHHHHHL	1 HHLLLHH
2 LLHHHHHHH	2 HLLHHHHLL	2 LLHHHHHL	2 LLHHHHHL
3 LLHHHHHHH	3 HLHLHLHL	3 LLHHHHHL	3 LLHHHHHL
4 LLHHHHHHH	4 HLHLHLHL	4 LLHLHHHL	4 LLHHHHHL
5 LLHHHHHHH	5 HLHLHLHL	5 LLHLHLH	5 LLHHHHHL
6 LLHHHHHHH	6 HLHLHLHL	6 LLHHHLH	6 LLHHHHHL
7 LLHHHHHHH	7 HLHHHHHL	7 LLHHHHHL	7 LLHHHHHL
8 LLHHHHHHH	8 HLHHHHHL	8 LLHHHHHL	8 LLHHHHHL
9 LLLLLLHH	9 HLHHHHHL	9 LLHHHHHL	9 HHLLLHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LLLLLLHH	1 HHLLLHHH	1 LLLLLLHH	1 LHLLLLHH
2 LLHHHHHLH	2 HHLHHHLH	2 LLHHHHHLH	2 LLHHHHHLH
3 LLHHHHHLH	3 LLHHHHHLH	3 LLHHHHHLH	3 LLHHHHHHH
4 LLHHHHHLH	4 LLHHHHHLH	4 LLHHHHHLH	4 LLHHHHHHH
5 LLLLLLHH	5 LLHHHHHLH	5 LLLLLLHH	5 LHLLLLHH
6 LLHHHHHH	6 LLHLHLH	6 LLHLHHHH	6 LHHHHHLH
7 LLHHHHHH	7 LLHHHLHH	7 LLHLHHHH	7 LHHHHHLH
8 LLHHHHHH	8 HHLHHHLH	8 LLHHHLHH	8 LLHHHHHLH
9 LLHHHHHH	9 HHLLLHLH	9 LLHHHLHH	9 LHLLLLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLLLLL	1 LLHHHHHLH	1 HLHHHHHL	1 HLHHHHHL
2 HHHLHHH	2 LLHHHHHLH	2 HLHHHHHL	2 HLHHHHHL
3 HHHLHHH	3 LLHHHHHLH	3 HLHHHHHL	3 HLHHHHHL
4 HHHLHHH	4 LLHHHHHLH	4 LLHHHHHLH	4 HLHLHHHL
5 HHHLHHH	5 LLHHHHHLH	5 HLHHHHHL	5 HLHLHHHL
6 HHHLHHH	6 LLHHHHHLH	6 LHLHHHLH	6 HLHLHHHL
7 HHHLHHH	7 LLHHHHHLH	7 HHHLHLHH	7 HLMLHLHL
8 HHHLHHH	8 HHLHHHLH	8 LHLLHHHH	8 HLLHHHL
9 HHHLHHH	9 LHLLLHHH	9 HHHLHHHH	9 HLHHHHHL
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHLHHHLH	1 LLHHHHHLH	1 HLLLLLLL	1 HHLLLHHH
2 LHLHLHHH	2 HHLHHHLH	2 HHHHHHHL	2 HHHLHHHH
3 HHHLHLHH	3 LHLHHHLHH	3 HHHHHLH	3 HHHLHHHH
4 LHHLLHHH	4 HHHLHLHH	4 HHHHHLHH	4 HHHLHHHH
5 HHHLHHH	5 LHHLLHHH	5 HHHLHHHH	5 HHHLHHHH
6 LHHLLHHH	6 HHHLHHHH	6 HHHLHHHH	6 HHHLHHHH
7 HHHLHLHH	7 HHHLHLHHH	7 HHHLHHHH	7 HHHLHHHH
8 LHLHLHHH	8 HHHLHLHHH	8 HLHHHHHH	8 HHHLHHHH
9 HHHLHHHL	9 HHHLHLHHH	9 HLLLLLLL	9 HHHLHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHLHHHHH	1 HHLLLHHH	1 HHLLLHHH	1 HHLLLHHH
2 LHLHHHHH	2 HHHHHLHH	2 LHLLLHHH	2 HHHHHHHH
3 HHHLHHHH	3 HHHHHLHH	3 HHLLHLH	3 HHHHHHHH
4 LHHHLHHH	4 HHHHHLHH	4 LLLHHHLH	4 HHHHHHHH
5 HHHLHHH	5 HHHHHLHH	5 HHHHHHHH	5 HHHHHHHH
6 LHHHLHHH	6 HHHHHLHH	6 HHHHHHHH	6 HHHHHHHH
7 HHHLHLHH	7 HHHLHLHH	7 HHHHHHHH	7 HHHHHHHH
8 LHHHLHHH	8 HHHLHLHH	8 HHHHHHHH	8 HHHHHHHH
9 HHHLHHH	9 HHHLHLHH	9 HHHHHHHH	9 HHHHHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HLLLLLLL
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

## BASIC ROMAN CHARACTER SET

HEWLETT-PACKARD CO.

@-(UNDERLINE) (100-137B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3	S	BHHHHHHHHHF	BHHLLLLLHF	BHLHHHLHHF	BHLHLLHLLF
4- 7		BLHLHLHLHF	BLHLHLHLHF	BLHLLLHLHF	BHLHHHHHLLF
8- 11		BHHHHHLHHF	BHHLLLHLHF	BHHHHHHHHHF	BHHHHHHHHHF
12- 15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16- 19		BHHHHHHHHHF	BHHHLLHHLF	BHHLHLHHHF	BHHLHHLHLF
20- 23		BHLHHHLHHF	BHLHHHHHLLF	BHLLLHLFFF	BHLHHHHHLLF
24- 27		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
28- 31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32- 35		BHHHHHHHHHF	BHLLLHLFFF	BLHHHHHLHF	BLHHHHHLHF
36- 39		BLHHHHHLHF	BHLLLHLFFF	BLHHHHHLHF	BLHHHHHLHF
40- 43		BLHHHHHLHF	BHLLLHLFFF	BHHHHHHHHHF	BHHHHHHHHHF
44- 47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48- 51		BHHHHHHHHHF	BHLLLHLHF	BHLHHHLHF	BHLHHHHHLLF
52- 55		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF	BHLHHHHHLLF
56- 59		BHLHHHLHHF	BHLLLHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
60- 63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64- 67		BHHHHHHHHHF	BHLLLHLFFF	BHLHHHLHF	BLHHHHHLHF
68- 71		BLHHHHHLHF	BLHHHHHLHF	BLHHHHHLHF	BLHHHHHLHF
72- 75		BHLHHHLHHF	BHLLLHLFFF	BHHHHHHHHHF	BHHHHHHHHHF
76- 79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80- 83		BHHHHHHHHHF	BHLLLHLFFF	BHHHHHHHLLF	BHHHHHHHLLF
84- 87		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
88- 91		BHHHHHHHLLF	BHLLLHLFFF	BHHHHHHHHHF	BHHHHHHHHHF
92- 95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96- 99		BHHHHHHHHHF	BHLLLHLFFF	BHHHHHHHLLF	BHHHHHHHLLF
100-103		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
104-107		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
108-111		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHLLLHLHHF	BHLHHHLHF	BHHHHHHHLLF
116-119		BHHHHHHHLHF	BLLLHHHLHF	BLHHHHHLHF	BHLHHHHHLLF
120-123		BHLHHHLHHF	BHLLLHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
124-127		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
128-131		BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
132-135		BHLHHHHHLLF	BHLLLHLFFF	BHLHHHHHLLF	BHLHHHHHLLF
136-139		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHHHHHHHHHF	BHLLLHLHHF	BHHHLHHHHF	BHHHLHHHHF
148-151		BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
152-155		BHHHLHHHHF	BHLLLHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
156-159		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-163		BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHHHMLF	BHLHHHHHLLF
164-167		BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
168-171		BHLHHHLHHF	BHLLLHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
172-175		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
176-179		BHHHHHHHHHF	BHLHHHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
180-183		BHHHLHHHLLF	BHHHHHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
184-187		BHHLHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
188-191		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
196-199		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
200-203		BHHHHHHHLLF	BHLLLHLFFF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHHHHHHHF	BLHHHHHLHF	BLHLLHLFFF	BLHLHLHLHF
212-215		BLHHHLHLHF	BLHHHLHLHF	BLHHHLHLHF	BLHHHHHLHF
216-219		BLHHHHHLHF	BLHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
220-223		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
224-227		BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
228-231		BHLHHHLHLLF	BHLHHHLHLLF	BHLLHHHMLLF	BHLHHHHHLLF
232-235		BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
236-239		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-243		BHHHHHHHHHF	BHLLLHLHHF	BHLHHHHHLLF	BHLHHHHHLLF
244-247		BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
248-251		BHLHHHHHLLF	BHLLLHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
252-255		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHF	BHHLLLLLLF	BHLHHHHHLLF	BHLHHHHHLLF
260-263	BHLHHHHHLLF	BHHLLLLLLF	BHHHHHHHLLF	BHHHHHHHLLF
264-267	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHLLLLHHHF	BHLHHHLHHF	BHLHHHHHLLF
276-279	BHLHHHHHLLF	BHLHHHHHLLF	BHLHLHLLF	BHLHHHHHLLF
280-283	BHLHHHLHHF	BHLLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHLLLLLLLF	BHLHHHHHLLF	BHLHHHHHLLF
292-295	BHLHHHHHLLF	BHLLLLLLLF	BHHHHHLHLLF	BHHHLHHHLLF
296-299	BHHHLHHHLLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHLLLLHLF	BHLHHHHHLLF	BHHHHHHHLLF
308-311	BHHHHHHHLLF	BHLLLLHLF	BHLHHHHHLLF	BHLHHHHHLLF
312-315	BHLHHHHHLLF	BHLLLLHLF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BLLLLLLLHF	BHHHLHHHHF	BHHHLHHHHF
324-327	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
328-331	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
340-343	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
344-347	BHLHHHLHHF	BHLLLLHLF	BHHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHLHHHHHLHF	BLHHHHHLHF	BLHHHHHLHF
356-359	BHLHHHHHLLF	BHLHHHLHHF	BHHHLHHHLF	BHHHLHLHHF
360-363	BHHHLHHHLF	BHHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BLHHHHHLHF	BLHHHHHLHF	BLHHHHHLHF
372-375	BLHHHLHHLHF	BLHHLHHHLHF	BLHHLHHHLHF	BLHLHLHLHF
376-379	BLLHHHLLHF	BLHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHLHHHLHMF	BHHHLHHHLF	BHHHLHLHHF
388-391	BHHHLHHHLF	BHHHLHHHHF	BHHHLHHHLF	BHHHLHLHHF
392-395	BHHHLHLHHF	BHLHHHLHMF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHLHHHHHLLF	BHLHHHLHMF	BHHHLHLHMF
404-407	BHHHLHLHHF	BHHHLLHHLF	BHHHLHHHHF	BHHHLHHHHF
408-411	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BLLLLLLLHF	BHHHHHHHHHF	BHLHHHHHHHF
420-423	BHHHLHHHHHF	BHHHLHHHHF	BHHHHHLHHHF	BHHHHHLHHHF
424-427	BHHHHHHHLHF	BLLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHLLLLHHHF	BHHHHHLHHHF	BHHHHHLHHHF
436-439	BHHHLHLHHF	BHHHLHHHHF	BHHHHHLHHHF	BHHHHHLHHHF
440-443	BHHHHHLHHHF	BHLLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHHHLHMF	BHHHHHLHLF	BHHHHHLHHHF
452-455	BHHHHHLHHLF	BHHHLHHHHF	BHHHLHHHLF	BHHHLHHHHF
456-459	BHHHLHHHHHF	BHLHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHLLLLHHHF	BHHHLHHHHF	BHHHLHHHHF
468-471	BHHHLHHHHHF	BHLHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
472-475	BHHHLHHHHHF	BHHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHLLLLHHHF	BHHLLLHLF	BHLHLHLHF
484-487	BHLHHHLLLF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
488-491	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
500-503	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
504-507	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLLLHF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF E

EXTENDED ROMAN CHARACTER SET, NULL-US (00-37B)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	X		X					1	X	X	X	X			1	X	X	X	X				1	
2	X	X		X				2	X						2	X							2	
3	X		X	X				3	X	X	X	X			3	X	X	X					3	
4	X			X	X			4		X					4		X							4
5	X		X	X	X			5	X	X	X	X	X		5	X	X	X	X	X			5	
6		X	X					6		X	X				6		X	X						6
7		X	X					7		X	X	X	X		7			X						7
8		X	X					8		X	X				8		X	X						8
9		X	X	X	X			9		X	X				9		X	X	X	X				9
10								10							10									10
11															11									11
12															12									12
13															13									13
14															14									14
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									0
1	X	X	X	X				1	X	X	X	X			1		X	X					1	
2	X							2	X						2		X						2	
3	X	X	X					3	X	X					3		X						3	
4	X							4	X						4		X						4	
5	X	X	X	X	X	X		5	X	X	X	X	X		5		X	X	X	X	X		5	
6		X						6		X	X				6		X						6	
7		X						7		X	X				7		X	X	X	X	X		7	
8		X						8		X	X				8		X	X					8	
9		X						9		X	X				9		X						9	
10								10							10								10	
11															11								11	
12															12								12	
13															13								13	
14															14								14	
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	X	X	X	X				1	X		X				1		X						1	
2	X							2	X						2		X						2	
3	X	X	X	X				3	X	X	X				3		X						3	
4	X							4	X						4		X						4	
5	X	X	X	X	X	X		5	X	X	X	X	X		5		X	X	X	X	X		5	
6		X						6		X					6		X						6	
7		X	X	X				7		X	X	X			7		X	X					7	
8		X						8		X	X				8		X						8	
9		X						9		X	X				9		X						9	
10								10							10								10	
11															11								11	
12															12								12	
13															13								13	
14															14								14	
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0								0	
1	X	X	X	X				1	X	X	X				1		X	X	X				1	
2	X							2	X						2		X						2	
3	X	X	X					3	X						3		X	X	X				3	
4	X							4	X						4		X						4	
5	X		X	X	X	X		5	X	X	X	X	X		5		X	X	X	X	X		5	
6		X						6		X					6		X						6	
7		X	X	X				7		X	X	X			7		X	X					7	
8		X						8		X	X				8		X						8	
9		X						9		X	X				9		X						9	
10								10							10								10	
11															11								11	
12															12								12	
13															13								13	
14															14								14	

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x				1	x	x	x				1	x	x	x			
2	x		x				2	x		x				2	x		x			
3	x		x				3	x		x				3	x		x			
4	x		x				4	x		x				4	x		x			
5	x	x	x	x			5	x	x	x	x	x		5	x	x	x	x	x	
6		x					6		x	x				6					x	
7		x					7		x					7				x	x	
8		x					8		x					8				x		
9		x	x	x	x		9		x	x	x			9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x				1	x		x				1	x	x	x			
2	x		x				2	x		x				2	x					
3	x		x				3	x	x	x				3	x	x				
4	x		x				4	x		x				4	x					
5	x	x	x	x			5	x	x	x	x			5	x	x	x	x	x	
6		x	x				6	x	x	x	x			6			x			
7		x	x				7	x	x	x	x			7			x			
8		x	x	x	x		8	x	x	x	x			8			x			
9		x	x				9	x	x	x	x			9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x				1	x	x	x				1	x	x	x			
2	x		x				2	x		x				2	x		x			
3	x		x				3	x	x	x				3	x	x	x			
4	x		x				4	x		x				4	x		x			
5	x	x	x	x			5	x	x	x	x	x		5	x	x	x	x	x	
6		x	x				6		x	x	x	x		6			x			
7		x	x	x			7		x	x	x	x		7		x	x	x		
8		x	x				8		x	x	x	x		8		x	x	x		
9		x	x	x			9		x	x	x	x		9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
∅							∅							∅						
1	x	x	x	x			1	x	x	x				1	x		x			
2	x		x	x			2	x		x	x			2	x		x			
3	x	x	x	x			3	x	x	x	x			3	x	x	x			
4	x		x	x			4	x		x	x			4	x		x			
5	x	x	x	x	x		5	x	x	x	x	x		5	x	x	x	x	x	
6		x	x	x	x		6		x	x	x	x		6			x			
7		x	x	x	x		7		x	x	x	x		7		x	x	x		
8		x	x	x	x		8		x	x	x	x		8		x	x	x		
9		x	x	x	x		9		x	x	x	x		9		x	x	x		
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

EXTENDED ROMAN CHARACTER SET, NULL-US (00-37B)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLHHHLHH	1 HLLLHHHH	1 HLLLHHHH	1 HLLLHHHH
2 HLLHHLHH	2 HLHHHHHH	2 HLHHHHHH	2 HLHHHHHH
3 HLHLHLHH	3 HLLLHHHH	3 HLLLHHHH	3 HLLLHHHH
4 HLHHLLHH	4 HHHHLHHH	4 HHHHLHHH	4 HLHHHHHH
5 HLHLLHL	5 HLLLHL	5 HLLLHL	5 HLLLHL
6 HHHLHLHH	6 HHHHLHHL	6 LHHHLLHH	6 LHHHLLHH
7 HHHHLHLH	7 HHHHLLL	7 HHHHLLHH	7 HHHHHLHH
8 HHHHLHLH	8 HHHHLHHL	8 LHHHLLHH	8 LHHHLLHH
9 HHHHLLLL	9 HHHHLHHL	9 HHHLHL	9 HHHLHL
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLHHH	1 HLLLHHH	1 LHLHHHHH	1 LHLHLHHH
2 HLHHHHHH	2 HLHHHHHH	2 HLLHLHHH	2 LHLHLHHH
3 HLLLHHHH	3 HLLLHHHH	3 LLHLHHHH	3 HHLHHHLH
4 HLHHHHHH	4 HLHHHHHH	4 HLLLHHHH	4 HHLHHHLH
5 HLLLHL	5 HLLLHL	5 HLHLHL	5 HHLHHHLH
6 LHHHHLHH	6 HHHLHLH	6 HHHLHLH	6 LLHHHHLH
7 LHHHHLHH	7 HHHHLHLH	7 HHHHLLHH	7 HLLLHL
8 LHHHHLHH	8 HHHLHLH	8 HHHLHLH	8 HHHLHLH
9 LHHHHLHH	9 HHHHLLLL	9 HHHLHLH	9 LHHLHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
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	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLHHH	1 HLHLHHH	1 HLHHHHHH	1 HLHLHLHH
2 HLHHLHHH	2 HLHLHHH	2 HLHHHHHH	2 HLHLHLHH
3 HLLLHHH	3 HLLLHHH	3 HLHHHHHH	3 LLHLHHHH
4 HLHLHHH	4 HLHLHHH	4 HLHHHHHH	4 HLLHLHHH
5 HLLLHL	5 HLHLHL	5 HLLLHL	5 LHLHLHHH
6 HHHLHLHH	6 LHHHHLHH	6 HHHLHLH	6 HHHLHLHH
7 HHHHLHLH	7 HHHLHLH	7 HHHHLL	7 HHHHHLHH
8 HHHLHLHH	8 HHHLHLH	8 HHHLHLH	8 HHHLHLHH
9 HHHLHLHH	9 HHHLHLH	9 HHHLHLH	9 HHHLHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
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	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HLLLHHH	1 LLLLHHH	1 HLLLHHH	1 HLLLHHH
2 HLHHHHHH	2 HLHLHHH	2 HLHHHHHH	2 HLHHHHHH
3 HLLLHHHH	3 HLHHHHHH	3 HLLLHHHH	3 HLLLHHHH
4 HLHHHHHH	4 HLHLHHH	4 HHHLHLH	4 HHHLHLHH
5 HLHLHL	5 LLLLHL	5 HLLLHL	5 HLLLHL
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6	HMMHLH
7	HHHLLL
8	HHHHHHHL
9	HHHLLL
10	HHHHHHHH
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14	HHHHHHHH
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EXTENDED ROMAN CHARACTER SET, NULL-US (00-37B)

HEWLETT-PACKARD CO.

NULL-US (00-37B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3	S	BHHHHHHHHHF	BHHLHHHLHF	BHHLHLLHF	BHHLHLHLHF
4- 7		BHHLLHHLF	BLHLLHHLF	BLHHLHHHF	BLHHLHHHHF
8- 11		BLHHLHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
12- 15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16- 19		BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
20- 23		BHHHLHHHF	BLHHHLLHF	BLHHLHHHF	BLLLHHHF
24- 27		BLHHLHHHF	BLHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
28- 31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32- 35		BHHHHHHHHHF	BHHHLLLF	BHHHHHHHLHF	BHHHLLLF
36- 39		BHHHLHHHF	BLLHLLLF	BHHLLHHHF	BHHLHHHHHF
40- 43		BHHLLHHHF	BLLHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
44- 47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48- 51		BHHHHHHHHHF	BHHHLLLF	BHHHHHHHLHF	BHHHLLLF
52- 55		BHHHHHHHHHF	BLLHLLLF	BHHLLHHHF	BHHLHHHHHF
56- 59		BHHLLHHHF	BLLHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
60- 63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64- 67		BHHHHHHHHHF	BHHHLLLF	BHHHHHHHLHF	BHHHMLLLHF
68- 71		BHHHHHHHLHF	BLLHLLLF	BHHLHHHF	BHHLHHHHHF
72- 75		BHHLHHHHHF	BHHLH4HHHF	BHHHHHHHHHF	BHHHHHHHHHF
76- 79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80- 83		BHHHHHHHHHF	BHHHLLLF	BHHHHHHHLHF	BHHHLLLF
84- 87		BHHHHHHHLHF	BHLLLLLF	BLHHLHHHF	BLHHLHHHF
88- 91		BLLHLHHHF	BLLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
92- 95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96- 99		BHHHHHHHHHF	BHHHHHLHF	BHHHHLLHF	BHHHHLHLLF
100-103		BHHHLLHF	BLHHLHHHF	BHLHLHHHF	BHLLMHHHF
104-107		BHLHLHHHF	BLHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
108-111		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHHHLLHF	BHHLHHHLHF	BHLHHHLHF
116-119		BHLHHHLHF	BHLHHHLHF	BHLHHHHHF	BLLLHLLHF
120-123		BHHLHLHHHF	BHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
124-127		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
128-131		BHHHHHHHHHF	BHHHLLLF	BHHHLHHHF	BHHHLLLF
132-135		BHHHLHHHF	BLLHLLLF	BHHHLHHHF	BLLLHHHF
136-139		BLHHHHHHHF	BLLHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLLLF
148-151		BHHHLHHHF	BLLHLLHF	BHHLHHHF	BHHLHHHF
152-155		BHHLHHHHHF	BHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
156-159		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-163		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHLHF	BHHHHHHHLHF
164-167		BHHHHHHHHHF	BLLHLLHF	BHHLHHHF	BLLLHHHF
168-171		BHHLHHHHHF	BHHLHHHF	BHHHHHHHF	BHHHHHHHHHF
172-175		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
176-179		BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHLHLLF
180-183		BHHHHLLHHF	BHLLLLHF	BHHLHHHF	BHHLHHHHHF
184-187		BHHLHHHHHF	BHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
188-191		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHLLLIHF	BHHHHHHHLHF	BHHHLLLLHF
196-199		BHHHHHHHLHF	BLLLHHLHF	BHHHLHHHF	BHLLLHHHF
200-203		BHHHLHHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHHHHHHHF	BHHHLLLF	BHHHLHHHF	BHHHHHHHLHF
212-215		BHHHLHHHF	BHLLLHLLHF	BLHHLHHHF	BLLLHHHF
216-219		BHLHLHHHF	BLHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
220-223		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
224-227		BHHHHHHHHHF	BHHHLLLF	BHHHHHHHLHF	BHHHLLLF
228-231		BHHHLHHHF	BHLLLLHF	BLHHLHHHF	BLHHLHHHF
232-235		BLHHLHHHF	BHLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
236-239		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-243		BHHHHHHHHHF	BHHHLLLF	BHHHHHHHLHF	BHHHLLLF
244-247		BHHHLHHHF	BHLHLLHF	BHLHHHHHF	BHLHHHHHF
248-251		BHLHHHHHF	BHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
252-255		BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHHLHF	BHHHLHHHLHF
260-263	BHHHLHHHLHF	BHHHLLLLHF	BHHHLHHHHF	BHHHLHHHHF
264-267	BHHHLHHHHF	BLLLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHLLLHF	BHHHLHHHLHF	BHHHLHHHLHF
276-279	BHHHLHHHLHF	BHLHHLLLHF	BHLHHHHHF	BHLHHHHHF
280-283	BHLHHHHHF	BLLLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHLLLHF	BHHHLHHHLHF	BHHHLHHHLHF
292-295	BHHHLHHHLHF	BHLHLHHHLF	BHLHHHHHF	BHLHHHHHF
296-299	BHLHHHHHF	BHLLHHHHLF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHLLLHF	BHHHLHHHLHF	BHHHLHHHLHF
308-311	BHHHLHHHLHF	BHLHLHHHLF	BHLHHHHHF	BHLHHHHHF
312-315	BHLHHHHHF	BHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHLLLHF	BHHHLHHHLHF	BHHHLHHHLHF
324-327	BHHHLHHHLHF	BHLHHLLLHF	BHLHLHHHHF	BHLHLHHHHF
328-331	BLLLLLHHHF	BHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHHHLHHHLHF	BHHHLHLLHF	BHHHLHLLHF
340-343	BHHHLHHHLHF	BLHHLHHHLHF	BHLHLHHHHF	BHLHLHHHHF
344-347	BHLHLHHHHF	BLHHLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHLLLLHF	BHHHHHHHLHF	BHHHLLLLHF
356-359	BHHHLHHHHF	BLHHLLLHF	BHLHLHHHF	BHLHLHHHF
360-363	BHMLHHHHHF	BHHLHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHLLLHF
372-375	BHHHHHHHLHF	BLLLLLHF	BHLHLHHHF	BLLLLHHHHF
376-379	BLHHLHHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHHLLLHF	BHHHLHHHLHF	BHHHHHHHLHF
388-391	BHHHLHHHLHF	BHLHHLLLHF	BHLHHHLHF	BHLHLHHHF
392-395	BHLHLHHHLF	BHLHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHLLLHF
404-407	BHHHHHHHLHF	BLHHLLLHF	BLHLHHHHF	BLHLHHHHF
408-411	BLHHHLHHHF	BLLHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHLLLHF
420-423	BHHHLHHHHF	BLLLLLHF	BHLHLHHHF	BLLLLHHHHF
424-427	BLHHLHHHHF	BLLLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHLLLHF
436-439	BHHHHHHHLHF	BLLLLLHF	BHHHLHHHF	BHHHLHHHF
440-443	BHHHLHHHLHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHLLLHF
452-455	BHHHHHHHLHF	BLLLLLHLHF	BHHHLHHHF	BLLLLHHHF
456-459	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHLLLHF
468-471	BHHHLHHHLHF	BLLLLLHF	BHHHLHHHF	BLLLLHHHF
472-475	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHHHLLLHF	BHHHLHHHLHF	BHHHLLLHF
484-487	BHHHHLHHHLHF	BLLLHLHF	BHHHLHHHF	BLLLHHHF
488-491	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BHHHLHHHLHF	BHHHLHHHLHF	BHHHLHHHLHF
500-503	BHHHLHHHLHF	BLLLLLHF	BHHHLHHHF	BLLLLHHHF
504-507	BLHHHHHHHF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

E

## EXTENDED ROMAN CHARACTER SET (GRAVE ACCENT)-DEL (140-177B)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x	x						1		x					1									
2		x	x					2		x					2									
3		x	x					3		x					3									
4		x	x					4	x	x	x	x	x	x	4		x	x	x	x				
5				x				5	x				x		5		x			x				
6			x	x	x	x	x	6	x			x			6	x				x				
7			x				x	7	x			x			7	x				x				
8			x				x	8	x			x			8	x			x			x		
9			x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x				
10					10				10						10									
11					11				11						11									
12					12				12						12									
13					13				13						13									
14					14				14						14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x							1			x	x	x		1									
2		x						2			x				2									
3		x						3			x				3									
4	x	x	x	x	x			4	x	x	x	x	x		4		x	x	x	x				
5	x		x				x	5	x			x			5	x			x					
6	x		x				x	6	x			x			6	x	x		x					
7	x		x				x	7	x			x			7	x	x		x					
8	x		x				x	8	x			x			8	x	x		x					
9	x		x				x	9	x	x	x	x	x		9	x	x	x	x	x				
10				10					10						10									
11				11					11						11									
12				12					12	x	x				12	x			x					
13				13					13	x	x	x			13	x			x					
14				14					14						14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x							1							1			x						
2		x						2		x					2			x						
3	x							3			x				3			x						
4	x	x	x	x	x			4	x	x					4		x		x	x				
5	x		x				x	5	x			x			5	x		x		x				
6	x		x				x	6	x			x			6	x	x		x					
7	x		x				x	7	x			x			7	x	x		x					
8	x		x				x	8	x			x			8	x	x		x					
9	x		x				x	9	x	x	x	x	x		9	x	x	x	x	x				
10				10					10						10									
11				11					11						11									
12				12					12	x	x				12	x			x					
13				13					13	x	x	x			13	x			x					
14				14					14						14									
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7	
0								0							0									
1	x	x						1							1									
2	x							2							2									
3	x							3							3									
4	x							4	x	x	x	x	x		4		x	x	x	x				
5	x						x	5	x		x	x	x		5	x		x	x	x				
6	x						x	6	x		x	x	x		6	x		x	x	x				
7	x						x	7	x		x	x	x		7	x		x	x	x				
8	x						x	8	x		x	x	x		8	x		x	x	x				
9	x	x	x	x			x	9	x	x	x	x	x		9	x	x	x	x	x				
10				10					10						10									
11				11					11						11									
12				12					12						12									
13				13					13						13									
14				14					14						14									

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1						
2							2							2						
3							3							3						
4	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x
5	x		x		x		5	x		x		x		5	x		x	x	x	x
6	x		x		x		6	x		x		x		6	x	x	x	x	x	x
7	x		x		x		7	x		x		x		7			x			x
8	x		x		x		8	x		x		x		8			x			x
9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x
10	x						10			x		x		10			x			x
11	x						11			x		x		11			x			x
12	x						12			x		x		12			x			x
13	x						13			x		x		13			x			x
14							14							14						

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1	x						1							1						
2	x						2							2						
3	x	x	x	x	x	x	3							3						
4	x						4	x		x		x		4	x		x		x	x
5	x						5	x		x		x		5	x		x	x	x	x
6	x						6	x		x		x		6	x		x	x	x	x
7	x						7	x		x		x		7	x		x	x	x	x
8	x	x	x	x	x	x	8	x		x		x		8	x	x	x	x	x	x
9	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1		x					1	x	x					1			x	x		
2	x	x					2		x					2	x		x		x	
3	x	x					3		x					3	x		x		x	
4	x	x					4	x						4	x		x		x	
5		x					5		x	x	x	x	x	5	x	x	x	x	x	x
6	x	x					6		x	x	x	x	x	6	x	x	x	x	x	x
7	x	x					7		x					7	x	x	x	x	x	x
8	x	x					8		x					8	x	x	x	x	x	x
9	x	x					9		x	x				9	x	x	x	x	x	x
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1	x	x					1	x	x					1	x	x	x	x	x	x
2	x	x					2		x					2	x	x	x	x	x	x
3	x	x					3		x					3	x	x	x	x	x	x
4	x	x					4	x						4	x	x	x	x	x	x
5		x					5		x	x	x	x	x	5	x	x	x	x	x	x
6	x	x					6		x	x	x	x	x	6	x	x	x	x	x	x
7	x	x					7		x					7	x	x	x	x	x	x
8	x	x					8		x					8	x	x	x	x	x	x
9	x	x					9		x	x				9	x	x	x	x	x	x
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

EXTENDED ROMAN CHARACTER SET (GRAVE ACCENT)-DEL (140-177B)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHLLHHHH	1 HHMHMHMH	1 LLHHMHMH	1 HHMHMHMH
2 HHHLHHHH	2 HHMHMHMH	2 LLHHMHMH	2 HHMHMHMH
3 LHHLLHHH	3 HHMHMHMH	3 LLHHMHMH	3 HHMHMHMH
4 HHHLHLHH	4 LLLLHLHH	4 LLLLHLHH	4 LHLLLHLH
5 HHHHHHHH	5 HHMHMHLH	5 LLHHMHLH	5 HHMHMHLH
6 HHHHHHHH	6 HLLLHLH	6 LLHHMHLH	6 LLHHMHMH
7 HHHHHHHH	7 HLHHMHLH	7 LLHHMHLH	7 LLHHMHMH
8 HHHHHHHH	8 HLHHMHLH	8 LLHHMHLH	8 HLHHMHLH
9 HHHHHHHH	9 LLLLHLH	9 LLLLHLH	9 LHLLLHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHHHHHLH	1 HHMHMHMH	1 HHMHLLH	1 HHMHMHMH
2 LHHHHHLH	2 HHMHMHMH	2 LHHLHHHH	2 HHMHMHMH
3 LHHHHHLH	3 HHMHMHMH	3 LHHLHHHH	3 HHMHMHMH
4 LHLLLHLH	4 LLLLHLHH	4 LLLLHLHH	4 HHLLLHLH
5 LLHHHHLH	5 LLHHMHLH	5 LHHLHHHH	5 LLHHMHLH
6 LLHHHHLH	6 LLLLHLH	6 LHHLHHHH	6 LLHHMHLH
7 LLHHHHLH	7 LLHHMHMH	7 LHHLHHHH	7 LLHHMHLH
8 LLHHHHLH	8 LLHHMHMH	8 LHHLHHHH	8 LLHHMHLH
9 LHLLLHLH	9 LHLLLHLH	9 LHHLHHHH	9 LHLLLHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 LHHHHHLH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 LHHHHHLH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHMHMHLH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 LHLLLHLH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LLHHHHHH	1 HHMHMHMH	1 HHMHMHMH	1 LHLHHHHH
2 LLHHHHHH	2 LHHLHHHH	2 LHHLHHHH	2 LHLHHHHH
3 LLHHHHHH	3 HHMHMHMH	3 HHMHMHMH	3 LHLHHHHH
4 LLLLHLH	4 HHLLLHHH	4 HHLLLHHH	4 LHLHHHLH
5 LLHHHHLH	5 HHHLHMH	5 HHHLHMH	5 LHLHLHHH
6 LLHHHHLH	6 HHHLHMH	6 HHHLHMH	6 LHLLHHHH
7 LLHHHHLH	7 HHHLHMH	7 HHHLHMH	7 LHLLHHHH
8 LLHHHHLH	8 HHHLHMH	8 HHHLHMH	8 LHLHLHHH
9 LLHHHHLH	9 LHLLLHLH	9 HHHLHMH	9 LHLHHHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHLHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHLHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHLHLHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHLLLHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHLHHH	1 HHMHMHMH	1 HHMHMHMH	1 HHMHMHMH
2 HHHLHHH	2 HHMHMHMH	2 HHMHMHMH	2 HHMHMHMH
3 HHHLHHH	3 HHMHMHMH	3 HHMHMHMH	3 HHMHMHMH
4 HHHLHHH	4 LLLLHLH	4 LLLLHLH	4 LHLLLHLH
5 HHHLHHH	5 HLHHLHHL	5 LHLHHHLH	5 HHHLHHHL
6 HHHLHHH	6 HLHHLHHL	6 LHLHHHLH	6 LLHHHHHL
7 HHHLHHH	7 HLHHLHHL	7 LHLHHHLH	7 LLHHHHHL
8 HHHLHHH	8 HLHHLHHL	8 LHLHHHLH	8 HHHLHHHL
9 LHLLLHLH	9 HLHHLHHL	9 LHLHHHLH	9 LHLLLHLH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH
4 LLLLLLHH	4 LHLLLLLH	4 HHLLHLHH	4 HHLLLLLH
5 LLHHHHLH	5 LLHHHHLH	5 HHLLHHLH	5 HHLLHHHH
6 LLHHHHLH	6 LLHHHHLH	6 HHLLHHHH	6 HHLLLLLH
7 LLHHHHLH	7 LLHHHHLH	7 HHLLHHHH	7 HHHHHHLH
8 LLHHHHLH	8 LLHHHHLH	8 HHLLHHHH	8 HHHHHHLH
9 LLHHHHLH	9 LHLLLLLH	9 HHLLHHHH	9 HHLLLLLH
10 LLHHHHHH	10 LHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 LLHHHHHH	11 LHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 LLHHHHHH	12 LHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 LLHHHHHH	13 LHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHHLHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH
2 LHHLHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHLLLLHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH
4 LHHLHHHH	4 LLHHHLHH	4 HLHHHHHL	4 HLHHHHHL
5 LHHLHHHH	5 LLHHHLHH	5 LLHHHHHL	5 LHHLHHHL
6 LHHLHHHH	6 LLHHHLHH	6 HHLLHHLH	6 HLHHLHHL
7 LHHLHHHH	7 LLHHHLHH	7 LHLLHHHH	7 LLHLHHLH
8 LHHLHLHH	8 LLHHHLHH	8 HHLLHLHH	8 HHLLHLHH
9 LHHLHLHH	9 LHLLLLLH	9 LHLLHHHH	9 LHHLHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 LHHHLHHH
2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HHHLHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH	3 HHHLHHHH
4 LLLHHLLH	4 HLHHHHHL	4 HHLLLLLH	4 HHHLHHHH
5 HHHLHLHH	5 LLHHHHLH	5 LHHHHLHH	5 HHLLHHHH
6 LHHLHHHH	6 HHLLHHHH	6 LHHHLHHH	6 HHHLHHHH
7 LHHLHHHH	7 LHLLHHHH	7 LHLLHHHH	7 HHHLHHHH
8 HHHLHLHH	8 HHHLHLHH	8 LHLLHHHH	8 HHHLHLHH
9 LLLHHLLH	9 LHHHHHHH	9 HHLLLLLH	9 LHHHLHHH
10 HHHHHHHH	10 HHHLHLHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 LHHLHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HLHLHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 LLLHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 LHLLLHHH	1 LHLLHHHH	1 HHHHHHHH	1 HHLHLHLH
2 LHLLLHHH	2 HHHLHLHH	2 HHHHHHHH	2 HLHLHLHL
3 LHLLLHHH	3 HHHLHLHH	3 HHHHHHHH	3 HHHLHLHL
4 LHLLLHHH	4 HHHLHLHH	4 LLLLHHHH	4 HLHLHLHL
5 HHHHHHHH	5 HHHHHLHH	5 HLHHHLHH	5 HLHLHLHL
6 LHLLLHHH	6 HHHLHLHH	6 LHHHLLLLH	6 HLHLHLHL
7 LHLLLHHH	7 HHHLHLHH	7 HHHHHHHH	7 HHHLHLHL
8 LHLLLHHH	8 HHHLHLHH	8 HHHHHHHH	8 HLHLHLHL
9 LHLLLHHH	9 LHLLHHHH	9 HHHHHHHH	9 HHHLHLHL
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

EXTENDED ROMAN CHARACTER SET  
 HEWLETT-PACKARD CO.  
 (GRAVE ACCENT)-DEL (140-177B)  
 MMI 4K PROM FORMAT  
 GGGGGGGGGGGGGGGGGGGGGGGGGGG

0- 3	S	BHHHHHHHHHF	BHHHHLLHLF	BHHHLLLHHF	BHHHLLLHLF
4- 7		BHLLLHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
8- 11		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
12- 15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16- 19		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
20- 23		BHLLLLLLLF	BHLHHHHHHHF	BHLLLLLLHF	BHLHHHHHLHF
24- 27		BHLHHHHHLHF	BHLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF
28- 31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32- 35		BHHHHHHHHHF	BHHHHHHHLF	BHHHHHHHLLF	BHHHHHHHLLF
36- 39		BHLLLLLLLF	BHLHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
40- 43		BHLHHHHHLF	BHLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF
44- 47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48- 51		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
52- 55		BHLLLLLLHF	BHLHHHLHHF	BHHHHHHHLLF	BHHHHHHHLLF
56- 59		BHLHHHLHHF	BHLLLLLLHF	BHHHHHHHHF	BHHHHHHHHHF
60- 63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64- 67		BHHHHHHHHHF	BHLHHHHHLF	BHLHHHHHHLF	BHLHHHHHHLF
68- 71		BHLLLLLLHF	BHLHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
72- 75		BHLHHHHHLF	BHL.LLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
76- 79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80- 83		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
84- 87		BHLLLLLLHF	BHLHHHHLLF	BHLLLLLLLF	BHHHHHHHLLF
88- 91		BHHHHHHHLLF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
92- 95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96- 99		BHHHHHHHHHF	BHLLLHHHHHF	BHHHHLHHHLF	BHHHHLHHHLF
100-103		BHLLLLLLLF	BHHHHLHHHF	BHHHHHLHHLF	BHHHHHLHHLF
104-107		BHHHHHLHHHF	BHHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
108-111		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
116-119		BHLLLLLHHF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
120-123		BHLHHHHHLF	BHLLLLLLHF	BHLHHHHHHLF	BHLHHHHHHLF
124-127		BHLHHHLHHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
128-131		BHHHHHHHHHF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF
132-135		BHLLLLLLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
136-139		BHLHHHHHLF	BHLHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHHLF	BHHHHHHHHHF
148-151		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
152-155		BHHHLHHHF	BHLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
156-159		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-163		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHLHHLF	BHHHHHHHHHF
164-167		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
168-171		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
172-175		BHHHLHLHF	BHHHLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
176-179		BHHHHHHHHHF	BHHHHHLHLF	BHHHHHLHLF	BHHHHHLHLF
180-183		BHHLHHHLHF	BHHHLHLHF	BHHHHLLHLF	BHHHHLLHLF
184-187		BHHHLHLHF	BHLHLHLHF	BHHHHHHHHHF	BHHHHHHHHHF
188-191		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
196-199		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
200-203		BHHHLHHHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
212-215		BHLLLLLLHF	BHLHLHHHF	BLHHLHHHF	BLHHLHHHF
216-219		BLHHLHHHF	BLHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
220-223		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
224-227		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
228-231		BHLLLLLLLF	BHLHHHHLHF	BHLHHHLHLLF	BHLHHHLHLLF
232-235		BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF	BHHHHHHHHHF
236-239		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-243		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
244-247		BHLLLLLLHF	BHLHHHLHHF	BHLHHHHHLLF	BHLHHHHHLLF
248-251		BHLHHHLHHF	BHLLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
252-255		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
260-263	BHLLLLLLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
264-267	BHLHHHHHLLF	BHLLLLLLF	BHHHHHHHLLF	BHHHHHHHLLF
268-271	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHF	BHHHHHHHHF
272-275	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
276-279	BHLLLLLHLF	BHLHHHHHLLF	BHLHHHHHLLF	BHLHHHHHLLF
280-283	BHLHHHHHLLF	BHLLLLLHLF	BHLHHHHHLLF	BHLHHHHHLLF
284-287	BHLHHHHHLLF	BHLHHHHHLLF	BHHHHHHHHF	BHHHHHHHHF
288-291	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
292-295	BHLLLHLHF	BHLHHLLHF	BHHHHHLHHF	BHHHHHLHHF
296-299	BHHHHHLHHF	BHHHHHLHHF	BHHHHHHHHF	BHHHHHHHHF
300-303	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
304-307	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
308-311	BHLLLLLHF	BHHHHHLHF	BHLLLLLHF	BHLHHHHHHF
312-315	BHLHHHHHHF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHF
316-319	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
320-323	BHHHHHHHHF	BHHHHHLHHF	BHHHHHLHHF	BHLLLHHHF
324-327	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
328-331	BHHHLHLHHLF	BHHLLLHHLF	BHHHHHHHHF	BHHHHHHHHF
332-335	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
336-339	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
340-343	BHHHLHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
344-347	BHHHLHHHLLF	BHLLLLLHLF	BHHHHHHHHF	BHHHHHHHHF
348-351	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
352-355	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
356-359	BLHHHHHLHF	BHLHHHHHLLF	BHLHHHHHLLF	BHHHLHHHLLF
360-363	BHLHLHHHF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
364-367	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
368-371	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
372-375	BLHHHHHLHF	BLHHHLHHLF	BLHHHLHHLF	BHLHLLHLLF
376-379	BHLHLLHHLF	BHLHHLHHLF	BHHHHHHHHF	BHHHHHHHHF
380-383	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
384-387	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
388-391	BHLHHHLLF	BHHHLHLHHF	BHHHLHHLF	BHHHLHHLF
392-395	BHHHLHLHHF	BHLHHHLLF	BHHHHHHHHF	BHHHHHHHHF
396-399	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
400-403	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
404-407	BLHHHHHLHF	BHLHHHHHLLF	BHLHHHHHLLF	BHHHLHHHLLF
408-411	BHHHLHLHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
412-415	BHHHHHLHHF	BHHHHHLHHF	BHHHHHHHHF	BHHHHHHHHF
416-419	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
420-423	BHLLLLLHF	BHLHHHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
424-427	BHHHHHLHHLF	BHLLLLLHF	BHHHHHHHHF	BHHHHHHHHF
428-431	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
432-435	BHHHHHHHHF	BHHHLHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
436-439	BHHHLHHHLLF	BHHHHHLHHF	BHHHLHHHLLF	BHHHLHHHLLF
440-443	BHHHLHHHLLF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
444-447	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
448-451	BHHHHHHHHF	BHHHLHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
452-455	BHHHLHHHLLF	BHHHHHHHHF	BHHHLHHHLLF	BHHHLHHHLLF
456-459	BHHHLHHHLLF	BHHHLHHHF	BHHHHHHHHF	BHHHHHHHHF
460-463	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
464-467	BHHHHHHHHF	BHHHLHHHLLF	BHHHLHHHLLF	BHHHLHHHLLF
468-471	BHHHLHHHLLF	BHLLHHHHF	BHHHLHHHLLF	BHHHLHHHLLF
472-475	BHHHLHHHLLF	BHHHHHLHHLF	BHHHHHHHHF	BHHHHHHHHF
476-479	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
480-483	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
484-487	BHHHLHLLLF	BLHHHLHHLF	BHLLLHHHLLF	BHHHHHHHHF
488-491	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
492-495	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
496-499	BHHHHHHHHF	BHLHLHLHF	BHLHLHLHF	BHLHLHLHF
500-503	BLHLHLHLHF	BHLHLHLHF	BHLHLHLHF	BHLHLHLHF
504-507	BLHLHLHLHF	BHLHLHLHF	BHHHHHHHHF	BHHHHHHHHF
508-511	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF

E

MATH SYMBOL SET (SPACE)-? (40-77B)

1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1						
2							2							2						
3							3							3						
4							4							4						
5							5							5						
6							6							6						
7							7							7						
8							8							8						
9							9							9						
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1						
2							2							2						
3	x	x	x	x	x	x	3	x	x	x	x	x	x	3	x	x	x	x	x	x
4	x			x			4	x	x	x	x	x	x	4	x			x		
5	x			x			5	x			x	x	x	5	x			x		
6	x		x				6	x			x	x	x	6	x			x		
7	x		x				7	x	x	x	x	x	x	7	x			x		
8	x	x					8	x	x	x	x	x	x	8	x			x		
9	x						9							9	x	x	x	x	x	x
10							10							10	x					
11							11							11	x					
12							12							12	x					
13							13							13	x					
14							14							14	x					
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1							1							1	x	x	x	x	x	x
2	x	x					2	x			x			2	x			x		
3	x	x					3	x	x	x				3	x			x		
4	x		x				4	x			x	x	x	4	x			x		
5	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x			x		
6							6	x			x	x	x	6	x			x		
7	x	x					7	x	x	x	x	x	x	7	x			x		
8	x						8	x			x	x	x	8	x			x		
9	x	x	x				9	x	x	x	x	x	x	9	x	x	x	x	x	x
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
0							0							0						
1	x	x	x				1							1	x			x		
2	x						2				x			2	x	x	x	x	x	x
3	x	x		x			3	x	x	x	x	x	x	3	x		x	x	x	x
4	x	x	x				4	x			x	x	x	4	x			x		
5	x	x	x	x			5	x	x	x	x	x	x	5	x	x	x	x	x	x
6	x	x	x	x			6	x			x	x	x	6	x			x		
7	x	x	x	x	x		7	x	x	x	x	x	x	7	x		x	x	x	x
8	x						8	x			x			8	x	x	x	x	x	x
9	x	x	x				9	x	x	x	x	x	x	9	x	x	x	x	x	x
10							10							10						
11							11							11						
12							12							12						
13							13							13						
14							14							14						

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								0								
1	x	x	x					1	x						1	x	x	x					1	x	x	x					
2	x		x					2	x	x					2	x		x					2		x						
3	x		x					3	x						3	x		x					3	x	x						
4	x		x					4	x						4	x	x	x					4		x						
5	x		x					5	x						5	x		x					5		x						
6	x	x	x					6	x	x	x				6	x	x	x	x				6	x	x	x					
7								7							7								7								
8								8							8								8								
9								9							9								9								
10								10							10								10								
11								11							11								11								
12								12							12								12								
13								13							13								13								
14								14							14								14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								0								
1	x							1	x	x	x				1	x	x	x					1	x	x	x	x				
2	x		x					2	x						2	x							2		x						
3	x		x					3	x	x	x				3	x							3		x						
4	x	x	x	x				4		x					4	x	x	x					4		x						
5	x							5	x	x					5	x		x					5		x						
6	x							6	x	x	x				6	x	x	x					6		x						
7								7							7		x	x					7		x						
8								8							8	x	x	x	x				8	x		x					
9								9		x	x				9	x	x	x	x				9	x	x	x	x				
10								10							10								10								
11								11							11								11								
12								12							12								12								
13								13							13								13								
14								14							14								14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								0								
1	x	x	x					1	x	x	x				1	x	x	x	x				1	x	x	x	x				
2	x		x					2	x						2	x		x					2	x		x					
3	x	x	x					3	x	x	x				3	x		x					3		x						
4	x		x					4	x						4	x		x					4		x						
5	x		x					5	x						5	x		x					5		x						
6	x	x	x					6	x						6	x		x					6		x						
7	x	x	x	x				7	x	x					7	x		x					7		x						
8	x	x	x	x				8	x	x	x				8	x		x					8	x		x					
9	x	x	x					9	x	x					9	x		x					9	x	x	x	x				
10								10							10								10								
11								11							11								11								
12								12							12								12								
13								13							13								13								
14								14							14								14								

MATH SYMBOL SET (SPACE)-? (40-77B)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHLHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHLHHH	1 HHHLLLHH
2 HHHHHHHH	2 LHHHHHLH	2 HHHHLHHH	2 LHLHHHHH
3 HHHHHHHH	3 HHHHHHLH	3 HHHHLHHH	3 LHLHHHHH
4 HHHHHHHH	4 LHHHHLHH	4 HHHHLHHH	4 LHLLLHH
5 HHHHHHHH	5 HHHHLHHH	5 HHHHLHHH	5 HLHLHHH
6 HHHHHHHH	6 LHHHLHHH	6 HHHHLHHH	6 LHLLLHH
7 HHHHHHHH	7 HLHLHHH	7 HHHHLHHH	7 LHHHLHH
8 HHHHHHHH	8 LLHLHHH	8 HHHHLHHH	8 LHHHHHLH
9 HHHHHHHH	9 HHLLHHH	9 HHHHLHHH	9 HHLLLHH
10 HHHHHHHH	10 LHLHHHHH	10 HHHHLHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHLHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHLHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHLHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHLHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHLHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHHLLLH
2 HHHHHHHH	2 HHHHLHHH	2 HHHHHHHH	2 LHHHLLLH
3 HLLLHL	3 HHHHLHHH	3 HHHHHHHH	3 HHHLHHH
4 LLHHHLH	4 HHLLLHHH	4 LLHHHHH	4 HHHLHHH
5 HHLHHHLH	5 HHHHLHHH	5 LLHHHHH	5 HHHLHHH
6 LHLHHHLH	6 HHHHLHHH	6 LLHHHHH	6 HHHLHHH
7 HHHLHLHH	7 HHHHHHHH	7 HHLLHLH	7 HHHLHHH
8 LHHLLHHH	8 HHLLLHHH	8 HHHHHHHH	8 HHHLHHH
9 HHHLHLHH	9 HHHHHHHH	9 HHLLHHH	9 HHHLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHLHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHLHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHLHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHLHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 LLLLLLH	1 LLLLLLH
2 LHLLLHHH	2 HHHHHHHH	2 LHLHHHLH	2 LHLHHHLH
3 LHHLLHHH	3 LLLLHHH	3 LHLHHHH	3 LHLHHHLH
4 HHHLHHH	4 HLHHHLH	4 LHLHHHH	4 LHLHHHH
5 LLLLLLH	5 LHHHLHHH	5 LHLHHHH	5 LHLHHHH
6 HHHHHHHH	6 HHHHHHHH	6 LHLHHHH	6 LHLHHHH
7 LHHLLHHH	7 HHHHHHHH	7 LHLHHHH	7 LHLHHHH
8 LHHLLHHH	8 HLLLHHH	8 LHLHHHH	8 LHLHHHH
9 HHHHHHHH	9 HHLLHHH	9 HHLLHLH	9 LLLLHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHHHHHH	1 HHHLHHH	1 LHLHHHLH
2 HHHHLHHH	2 HHHHHHHH	2 HHHHLHHH	2 HHLLLHHH
3 HLHHHLH	3 LLLLHHH	3 LHLHHHH	3 LLHHHLHH
4 HHHLHLH	4 HHHHHHH	4 HLHLHLH	4 HHHHHHHH
5 HHHLHLH	5 LLLLLHH	5 HLHLHLH	5 HHLLLHH
6 HHHLHLH	6 HHHHHHHH	6 HLHLHLH	6 HHHHHHHH
7 HHLLLHH	7 LLLLHHH	7 LHLHHHH	7 LHLHHHLH
8 HHHLHLH	8 HHHHHHHH	8 HHHLHHH	8 HHLLLHH
9 HHHLHLH	9 HHHHHHHH	9 HHHLHHH	9 LLHHHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLLLHHHHH	1 LHLHHHHHH	1 LLLLHHHHH	1 LLLLHHHHH
2 HLHHLHHHH	2 LLLHHHHHH	2 HLHHLHHHH	2 HHMHLHHHH
3 LHHLHHHH	3 LHLHHHHHH	3 LHHLHHHH	3 LLLLHHHHH
4 HLHHLHHHH	4 LHLHHHHHH	4 HLHHHHHHH	4 HHMHLHHHH
5 HLHHLHHHH	5 LHLHHHHHH	5 HLHHHHHHH	5 HHMHLHHHH
6 LLLLHHHHH	6 LLLLHHHHH	6 HLLLHHHH	6 LLLLHHHHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH
9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HLHHHHHHH	1 LLLLHHHH	1 LLLLHHHH	1 LLLLHHHH
2 HLHLHHHH	2 HLHHHHHH	2 HLHHHHHH	2 HHMHLHHHH
3 HLHLHHHH	3 LLLLHHHH	3 HLHHHHHH	3 LLLLHHHH
4 HLLLHHHH	4 HHHHLHHHH	4 HLLLHHHH	4 HHMHLHHHH
5 HHHLHHHH	5 HLHHLHHHH	5 HLHHLHHHH	5 LHLHHHHHH
6 HHHLHHHH	6 LLLLHHHH	6 HLLLHHHH	6 HHLHHHHHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH	7 HHHHHHHHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH	8 HHHHHHHHH
9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH	9 HHHHHHHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LLLLHHHH	1 LLLLHHHH	1 LLLLHHHH	1 HHHHHHHHH
2 HLHHLHHHH	2 HLHHLHHHH	2 HLHHLHHHH	2 HHHHHHHHH
3 LLLLHHHH	3 LLLLHHHH	3 LLHHHHHLH	3 HHMHLHHHH
4 HLHHLHHHH	4 HHHHLHHHH	4 LLHHHHHLH	4 LHLHHHHHH
5 HLHHLHHHH	5 HHHHLHHHH	5 HLHHHHHLH	5 HHHLHHHH
6 LLLLHHHH	6 LLLLHHHH	6 LHHLHHLHH	6 LHLHHHHHH
7 HHHHHHHHH	7 HHHHHHHHH	7 HHHLHLHH	7 HHLHHHHHH
8 HHHHHHHHH	8 HHHHHHHHH	8 HLHLHLHL	8 LLHHHHHLH
9 HHHHHHHHH	9 HHHHHHHHH	9 LLHLHHLLH	9 HLLHHHHLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHLHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHLHHHH	1 HHHLHLHH	1 LLLLLLLL
2 HHHHHHHHH	2 HHHHLHHHH	2 LHLLLHHHH	2 HHHLHHHL
3 HHHHHHHHH	3 HHHHLHHHH	3 HHHLHLHH	3 HHHLHHHH
4 HHHHHHHHH	4 HHHHLHHHH	4 HHLLLLHLH	4 HHHLHLHH
5 HHLHLHLH	5 HHHHLHHHH	5 HHHLHLHH	5 HHMHLHHHH
6 LLHLHLHLH	6 HHHHLHHHH	6 HHHLHLHH	6 HHHLHLHH
7 LLHLHLHLH	7 HHHLHLHH	7 HHHLHLHH	7 HHHLHLHH
8 HHLHLHLH	8 LLLLHHHH	8 HHHLHLHH	8 HHLHHHL
9 HHLHLHLH	9 HHLHLHHH	9 HHHLHLHH	9 HLLLLLLL
10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

MATH SYMBOL SET  
 HEWLETT-PACKARD CO.  
 (SPACE)-? (40-77B)  
 MMI 4K PROM FORMAT  
 GGGGGGGGGGGGGGGGGGGGGGGGGGG

0-	3	S	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
4-	7		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
8-	11		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
12-	15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16-	19		BHHHHHHHHHF	BLHHHHHHHF	BHLHHHHHLF	BHLHHHHHHHF
20-	23		BHHLH <del>H</del> HLF	BHHLHHHHHF	BHHHLHHHLF	BHHHLHHHLHF
24-	27		BHHHLHLLF	BHHHLHLLHF	BHHHHHLHLF	BHHHHHHHHHF
28-	31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32-	35		BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
36-	39		BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF
40-	43		BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
44-	47		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
48-	51		BHHHHHHHHHF	BHHLLLHHHF	BHHHHHLHLF	BHHHHHLHLF
52-	55		BHHLLLHLF	BHLHHHLHHF	BHHLLLHLF	BHHHLHHHF
56-	59		BHHLHHHHLF	BHHLLLHHHF	BHHHHHHHF	BHHHHHHHHHF
60-	63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
64-	67		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHF
68-	71		BHLHHHLHLF	BHLHHHLHF	BHLHHHLHF	BHLHHHLHF
72-	75		BHHHLHHHF	BHHHLHHHF	BHHHHHHHF	BHHHHHHHHHF
76-	79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
80-	83		BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF
84-	87		BHLLLHLHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
88-	91		BHLLLHLHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
92-	95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHF
96-	99		BHHHHHHHHHF	BHHHHHHHHHF	BLLHHHHHF	BHLHLLLHHF
100-103			BHHLHLHLF	BHHLLLHHLF	BHHLHLHLF	BHLHLLLHHF
104-107			BLLHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
108-111			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
112-115			BHHHHHHHHHF	BHLHHHHHF	BHLLHHHLHF	BHHHLHHHF
116-119			BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
120-123			BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
124-127			BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
128-131			BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHLF	BHHHLHHHF
132-135			BHHHHHHHHHF	BHLLLLLLF	BHHHHHHHF	BHHHLHHHF
136-139			BHHHLHHLF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
140-143			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
144-147			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHLLLLHF
148-151			BHLHLHHLHF	BHLHHHHHF	BHHHHHHHF	BHHHHHHHF
152-155			BLLLLLLHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
156-159			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
160-163			BHHHHHHHHHF	BHLLLLLLF	BHLHHHLHLF	BHLHHHLHLF
164-167			BHLHHHLHLF	BHLHHHLHF	BHLHHHLHF	BHLHHHLHF
168-171			BHLHHHLHF	BHLHHHHHF	BHHHHHHHF	BHHHHHHHHHF
172-175			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
176-179			BHHHHHHHHHF	BHLLLLLLF	BHLHHHLHLF	BHLHHHLHLF
180-183			BHHHHHLHLF	BHHHHHLHF	BHHHHHLHF	BHHHHHLHF
184-187			BHHHHHLHLF	BHHHHLLLHF	BHHHHHHHF	BHHHHHHHHHF
188-191			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
192-195			BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHLHLHHLHF
196-199			BHLHLHHLHF	BHLHLHHLHF	BHLHLHHF	BHLHLHHF
200-203			BHHHLHHHF	BHHHLHHHF	BHHHHHHHF	BHHHHHHHHHF
204-207			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
208-211			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHLLLLLLF
212-215			BHHHHHHHHHF	BHLLLLLLF	BHHHHHHHF	BHLLLLLLF
216-219			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
220-223			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
224-227			BHHHHHHHHHF	BHHHLHHHF	BHLHLHHHF	BHLHLHHHF
228-231			BHLHLHHLHF	BHLHLHHLHF	BHLHLHHF	BHLHLHHF
232-235			BHHHLHHHF	BHHHLHHHF	BHHHHHHHF	BHHHHHHHHHF
236-239			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF
240-243			BHHHHHHHHHF	BHLHHHLHF	BHLHLHHHF	BHLHLHHHF
244-247			BHHHHHHHHHF	BHLHLHHHF	BHHHHHHHF	BHLHHHLHLF
248-251			BHLHLHHHF	BHLHLHHHLF	BHHHHHHHF	BHHHHHHHHHF
252-255			BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHF	BHHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHHLLLLF	BHHHLHHHLHF	BHHHLHHHLHF
260-263	BHHHLHHHLHF	BHHHLHHHLHF	BHHHHHLLLLF	BHHHHHHHHHF
264-267	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHHLHLF	BHHHHHLLLHF	BHHHHHHLHF
276-279	BHHHHHHLHLF	BHHHHHHLHF	BHHHHHLLLHF	BHHHHHHHHHF
280-283	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHHLHF	BHHHHHLHHLF
292-295	BHHHHHLLHHF	BHHHHHHLHF	BHHHHHLLLHF	BHHHHHHHHHF
296-299	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHLLLHF	BHHHLHHHHF	BHHHHHLLHLF
308-311	BHHHLHHHHF	BHHHLHHHHF	BHHHHHLLLHF	BHHHHHHHHHF
312-315	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHHHLHF	BHHHHHLHLHF	BHHHHHLHLHF
324-327	BHHHLLLHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
328-331	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
336-339	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHHHLLHF
340-343	BHHHLHHHHF	BHHHLHHHF	BHHHHHLLLHF	BHHHHHHHHHF
344-347	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHLLLHF	BHHHHHHHLHF	BHHHHHHHLHF
356-359	BHHHLLLLHF	BHHHLHHHF	BHHHLLLHF	BHHHHHHHHHF
360-363	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
364-367	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHLLLHF	BHHHLHHHF	BHHHLLLHF
372-375	BHHHHHLHHHF	BHHHHHLHF	BHHHHHLHHF	BHHHHHHHHHF
376-379	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHLLLHF	BHHHLHHHF	BHHHLLLHF
388-391	BHHHLHHHF	BHHHLHHHF	BHHHLLLHF	BHHHHHHHHHF
392-395	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHLLLHF	BHHHLHHHF	BHHHLLLHF
404-407	BHHHLHHHF	BHHHLHHHF	BHHHLLLHF	BHHHHHHHHHF
408-411	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHHLLLHF	BHLHHHLHHF	BHLHHHHLLF
420-423	BHLHHHHLLF	BHLHHHLHF	BHLHHHLHF	BHLHLHHHF
424-427	BLHLHLHLHF	BHLHLHLHF	BHHHHHHHHHF	BHHHHHHHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHLHHHHF
436-439	BHHHLLHLHF	BHHHLHLHHF	BHLHLHLHF	BHLHHHLHHF
440-443	BHLHHHHLLF	BLLHHHLLHF	BHHHHHHHHMF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
448-451	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
452-455	BHHHHHHHHHF	BHLHLLHMF	BHLHLLHLLF	BHLHLLHLLF
456-459	BHLHLLHMF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
464-467	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHHF
468-471	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHLHHF
472-475	BHHHLLLHF	BHHHHLLHF	BHHHHHHHHMF	BHHHHHHHHHF
476-479	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHHF
484-487	BHLHLLHMF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHHF
488-491	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BLLLHLHHHF	BLLHHHLHHF	BHHHHHLHHHF
500-503	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHLHHHF
504-507	BLHHHHHLHF	BLLLHLHHHF	BHHHHHHHHMF	BHHHHHHHHHF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHMF	BHHHHHHHHHF E

MATH SYMBOL SET  $\underline{\text{w}}$ =(UNDERLINE) (100~137B)

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		
0								0								0								0	
1	x	x	x	x	x	x		1			x	x	x				1			x					
2	x	x	x	x	x			2		x		x					2			x					
3	x	x	x	x				3		x		x					3			x					
4	x	x	x	x				4	x	x	x	x					4		x	x	x	x			
5	x	x						5	x	x	x	x	x				5	x		x	x	x	x		
6	x	x						6	x	x		x		x			6	x		x	x	x	x		
7	x	x						7	x	x		x		x			7	x	x	x	x	x	x		
8	x	x						8	x	x		x		x			8	x	x	x	x	x	x		
9	x	x						9	x	x	x	x	x	x			9	x	x	x	x	x	x		
10								10	x								10	x							
11								11	x								11	x							
12								12									12								
13								13									13								
14								14									14								
.	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7		
0								0								0								0	
1			x					1			x	x					1		x						
2			x					2		x		x					2		x		x				
3		x	x	x				3				x					3		x			x			
4		x	x	x	x			4	x	x	x	x					4		x		x	x			
5	x	x	x	x				5	x				x	x	x		5		x	x	x	x			
6	x	x	x	x				6	x	x	x	x		x			6	x		x	x	x			
7	x	x	x	x				7	x			x		x			7	x		x	x	x			
8	x	x	x	x				8	x		x	x		x			8	x		x	x	x			
9	x	x	x	x				9	x	x	x	x		x			9	x		x	x	x			
10	x							10									10								
11								11									11								
12								12									12								
13								13									13								
14								14									14								
1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7			
0								0								0								0	
1								1			x	x	x	x			1								
2								2		x		x		x			2								
3								3		x				x			3								
4	x	x	x	x	x			4	x			x		x			4		x		x	x			
5	x	x	x	x	x			5	x			x		x			5		x		x	x			
6	x	x	x	x	x			6	x			x		x			6		x	x	x	x			
7	x	x	x	x	x			7	x			x		x			7		x	x	x	x			
8	x	x	x	x	x			8	x		x	x		x			8		x	x	x	x			
9	x	x	x	x	x			9	x	x	x	x	x			9		x	x	x	x				
10								10	x								10	x							
11								11	x								11	x							
12								12									12								
13								13									13								
14								14									14								

	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1								1							1								
2								2							2								
3								3							3								
4	x	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	x
10								10							10								
11								11							11								
12								12							12								
13								13							13								
14								14							14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1								1	x	x	x	x	x	x	1	x	x	x	x	x	x	x	x
2								2	x	x	x	x	x	x	2	x	x	x	x	x	x	x	x
3								3	x	x	x	x	x	x	3	x	x	x	x	x	x	x	x
4	x	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	x
10								10							10								
11								11							11								
12								12							12								
13								13							13								
14								14							14								
	1	2	3	4	5	6	7		1	2	3	4	5	6	7		1	2	3	4	5	6	7
0								0							0								
1								1							1								
2								2							2								
3	x	x	x	x	x	x	x	3	x	x	x	x	x	x	3	x	x	x	x	x	x	x	x
4	x	x	x	x	x	x	x	4	x	x	x	x	x	x	4	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	5	x	x	x	x	x	x	5	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	6	x	x	x	x	x	x	6	x	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	7	x	x	x	x	x	x	7	x	x	x	x	x	x	x	x
8	x	x	x	x	x	x	x	8	x	x	x	x	x	x	8	x	x	x	x	x	x	x	x
9	x	x	x	x	x	x	x	9	x	x	x	x	x	x	9	x	x	x	x	x	x	x	x
10								10							10								
11								11							11								
12								12							12								
13								13							13								
14								14							14								

MATH SYMBOL SET @-(UNDERLINE) (100-137B)

01234567	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 LHLLLHLLH	1 HHHHHHHHH	1 HHHLLLLHH	1 HHHHHHHHH
2 LLLLHLHH	2 HHHHHHHHH	2 LHLHHHLHH	2 HHHHHHHHH
3 LLLLHLHH	3 HHHHHHHHH	3 HHHLHHHLH	3 HHHHHHLHH
4 LHHLHLHH	4 LHLLLHH	4 LLHHHLHH	4 LHHLHHHH
5 LHHLHLHH	5 LLHHHLHH	5 LLHLLLHH	5 HLHLHLHL
6 LHHLHLHH	6 LLHHHLHH	6 LLHHHHHLH	6 HLHLHLHL
7 LHHLHLHH	7 LLHHHLHH	7 LLHHHHHLH	7 LLHLHHHLH
8 LHHLHLHH	8 LLHHHLHH	8 LLHHHHHLH	8 HHHLHHHLH
9 LHHLHLHH	9 LHLLLHH	9 LLHLLLHH	9 LHLLLHHH
10 HHHHHHHHH	10 HHHHHHHHH	10 LLHHHHHHH	10 HHLHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 LLHHHHHHH	11 LLHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHLH	1 HHHHHHHHH	1 LHHLHHHH	1 HHLHHHHHH
2 LHHHHLHH	2 HHHHHHHHH	2 LHLHHHLHH	2 HHHLHHHHH
3 HHHLLLHH	3 HHHHHHHHH	3 HHHLHHHLH	3 LHHLHHHHH
4 LHLHLHH	4 HHHLLLHH	4 HHHHHHHLH	4 HHMLHHHH
5 HHLHLHLH	5 LHLHHHHH	5 HHLLLHLH	5 LHLHHHHH
6 HHLHLHLH	6 HHLLLHHH	6 HLHHHLHLH	6 HHHLHLHH
7 LHLHLHLH	7 HHLHHHHH	7 HLHHHHHLH	7 LHLHLHHH
8 HHHLLLHH	8 LHLHHHHH	8 HLHHHHHLH	8 HHLHHHLH
9 LHLHHHHH	9 HHHLLLHH	9 HHLLLHHH	9 LLHHHHHLH
10 HHLHHHHH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHHHHHH	1 LHLLLHH	1 HHHHHHHHH
2 HHHHHHHHH	2 HHHHHHHHH	2 HHHLHHHL	2 HHHHHHHHH
3 HHHHHHHHH	3 HHHHHHHHH	3 LLHHHHHL	3 HHHHHHHHH
4 LLHLLLHH	4 HHHLHHHH	4 HLHHHHHL	4 HHHLHHHL
5 HHLLHHHL	5 HHHLHHHH	5 HHLLLHL	5 HHHLHLHH
6 HHLHHHLH	6 HHHLHHHH	6 HLHHHHHL	6 HHHLHLHH
7 HHLHHHLH	7 HHHLHHHH	7 LLHHHHHLH	7 LHLHLHHH
8 HHLHHHLH	8 HHHLHHHH	8 HLHLHHHL	8 HHHLHLHH
9 HHLHHHLH	9 LHHLLHHH	9 LHLLLHHH	9 LLHHHLHH
10 LHHHHHLH	10 HHHHHHHHH	10 HHHHHHHHH	10 HHHHHHHHH
11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH	11 HHHHHHHHH
12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH	12 HHHHHHHHH
13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH	13 HHHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH	0 HHHHHHHHH
1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHHHH	1 HHHHHHHHH
2 HHHHHHHHH	2 HHHHHHHHH	2 HHHHHHHHH	2 HHHHHHHHH
3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHHHHHH	3 HHHHHHHHH
4 HHLHHHLH	4 LHLHHHLH	4 LLHHLHLH	4 HHHLLLHH
5 LLHHHHHL	5 LHLHHHLH	5 LHLHHHLH	5 LHLHLHLH
6 HLHLHLHL	6 LHLHHHLH	6 LHLHHHLH	6 HHHLHHHL
7 HLHLHLHL	7 LHLHHHLH	7 LHLHLHLH	7 HHHLHHHL
8 LLHLLHLH	8 LHLHHHLH	8 LHLHLHLH	8 HHLLHLHL
9 HHLLHLHL	9 HHHLLLHH	9 LHLLHHHH	9 LLHLLLHH
10 HHHHHHHHH	10 LHLHHHHH	10 HHHHHHHHH	10 LLHHHHHHH
11 HHHHHHHHH	11 LHLHHHHH	11 HHHHHHHHH	11 LLHHHHHHH
12 HHHHHHHHH	12 HHLHHHHH	12 HHHHHHHHH	12 LLHHHHHHH
13 HHHHHHHHH	13 LLHHHHHHH	13 HHHHHHHHH	13 LLHHHHHHH
14 HHHHHHHHH	14 HHHHHHHHH	14 HHHHHHHHH	14 LLHHHHHHH
15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH	15 HHHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHHHHHH	2 LHLHHLHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHLLHHHL	3 HHHHHHHH
4 LLLLLLH	4 HHLLHLL	4 HHLLHHHL	4 HHLLLLH
5 HLHLHLHH	5 LLHLHLHH	5 HHLLLLH	5 LHLHLHHH
6 HHLHLHLH	6 HHHHLHHH	6 HHLLHHHL	6 HHLHLHLH
7 HHHLHLHH	7 LHHHLHHH	7 HHLLHHHL	7 HHHLHLHH
8 HHHLHLHH	8 LHHHLHHH	8 LHLLHLHH	8 HHLHLHHH
9 LHLHLHHH	9 LHHHLHHH	9 HHLLLLHH	9 LHLLLHHH
10 HHHHHHHH	10 LHHHLHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 LHHHLHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 LHHHLHHH	12 HHHHHHHH	12 HHHHHHHH
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14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 LHLHLLHH	1 HHHHHHHH	1 HHHHLHHH
2 HHHHHHHH	2 HHLLLLHH	2 HHHHHHHH	2 HHLLLHHH
3 HHHHHHHH	3 LHLHHHHH	3 HHLLHHHH	3 LHHLHHHH
4 LLLLLLH	4 HHLLHHHH	4 LHLLHHHH	4 HHHLHLHH
5 HLHLHLHH	5 HHLLHLHH	5 HHLLHLHH	5 LHLLLHHH
6 HHHHLHLH	6 HHLLLLHH	6 LHLHHHLH	6 HHLHLHLH
7 HHHLHLHH	7 HHLLHHHH	7 HHLLHHHL	7 HHLMHLHH
8 HHHLHLHH	8 HHLLHHHH	8 LLHHHHHL	8 HHLHHHLH
9 LHHHLHHH	9 LHLLLLHH	9 HHLLLLHH	9 LHLLLHHH
10 HHHHHHHH	10 HHLLHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 LHHLLHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
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14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
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1 HHHHHHHH	1 HHHHHHHH	1 LHLHHHHH	1 HHHHLHHH
2 HHHHHHHH	2 HHHHHHHH	2 LHLLHHHH	2 HHLLLLHH
3 HLLHHHLH	3 HHHHHHHH	3 HHLLLLHH	3 HLLLLLHH
4 LHLHLHLH	4 HLLHHHHH	4 LHLHHHHH	4 HHHLHLHH
5 HHHLHLHH	5 LHLHHHHH	5 HHLLHHHH	5 HHMLHLHH
6 LHHLLHHH	6 HHHLHHHL	6 HHLHHHHH	6 HHMLHLHH
7 HHHLHLHH	7 HHHLHHHL	7 HHLLHHHH	7 HHMLHLHH
8 LHHLLHHH	8 HHHLHLHH	8 HHLLHHHH	8 HHMLHLHH
9 HHHLHLHH	9 LHLLLLHH	9 HHLLLLHH	9 HHMLHLHH
10 LHLHLHHH	10 HHHHHHHH	10 LHHHHHLH	10 HHHHHHHH
11 HHLHHHL	11 HHHHHHHH	11 HHHLLLLH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
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14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHLLHLHH	1 HHHHHHHH	1 HHHLHLHH
2 HHHHHHHH	2 LLHLHLHH	2 HHHHHHHH	2 HHHLHLHH
3 HHHHHHLHH	3 HLHHHLHH	3 HHLLHHHH	3 HHHLHLHH
4 HHHLHLHH	4 HHHLHLHH	4 LHLLHHHH	4 HHHLHLHH
5 HLLLLLH	5 HHHLHLHH	5 LHLLLLHH	5 HHHLHLHH
6 HHHHHHLH	6 HHHLHLHH	6 HHLLHHHH	6 HHHLHLHH
7 HHHHHHLH	7 HHHLHLHH	7 HHLLHHHH	7 HLLLLLHH
8 HHHHHHHH	8 HHHLHLHH	8 HHLLHHHH	8 HHHLHLHH
9 HHHHHHHH	9 HHHLHLHH	9 HHLLHHHH	9 HHHLHLHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

MATH SYMBOL SET  
 HEWLETT-PACKARD CO.  
W-(UNDERLINE) (100-137B)  
 MMI 4K PROM FORMAT  
 GGGGGGGGGGGGGGGGGGGGGGGGGGG

0-	3	S	BHHHHHHHHHF	BHLLLLLHLF	BHHLHLLLLF	BHHLHLLLLF
4-	7		BHHLHLLHLF	BHMLHLHHLF	BHHLHLHHLF	BHHLHLHHLF
8-	11		BHHLHLHHLF	BHMLHLHHLF	BHHHHHHHHHF	BHHHHHHHHHF
12-	15		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
16-	19		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
20-	23		BHHLLLHLF	BHHLHHHLLF	BHHLHHHLLF	BHHLHHHLLF
24-	27		BHHLHHHLLF	BHLLLLLHLF	BHHHHHHHHHF	BHHHHHHHHHF
28-	31		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
32-	35		BHHHHHHHHHF	BHMLLLHHHF	BHLHHHLHMF	BHLHHHLHMF
36-	39		BHMLHHHLLF	BHMLLLHLLF	BHLHHHLLF	BHLHHHLLF
40-	43		BHLHHHLLF	BHMLLLLHF	BHHHHHHHLLF	BHHHHHHHLLF
44-	47		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
48-	51		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
52-	55		BHHHLHHHLF	BLHHHLHHLF	BLHHHLHHLF	BHLHHHLHLLF
56-	59		BHLHHLLHMF	BHLLLLLHLF	BHHHHHHHLLF	BHHHHHHHLLF
60-	63		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
64-	67		BHHHHHHHHHF	BHLHHHHHHHF	BHLHHHLLHF	BHHLLLHHHF
68-	71		BHLLHLHLHF	BHLHLHLHMF	BHLHLHLHMF	BHLHLHLHMF
72-	75		BHLLLHHHF	BHHHHHLHMF	BHHHHHLHMF	BHHHHHHHHHF
76-	79		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
80-	83		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
84-	87		BHLLLHHHF	BHHHHHHHLLF	BHLLLHHHF	BHHHHHLHMF
88-	91		BHHHHHLHMF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
92-	95		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
96-	99		BHHHHHHHHHF	BHHHLHHHLLF	BHLHHHLHMF	BHLHHHHHHHF
100-	103		BHLHHHHHHHF	BHLHLLHMF	BHLHHHHLHF	BHLHHHLHMF
104-	107		BHLHHHHHLHF	BHLLLLLHF	BHHHHHHHHHF	BHHHHHHHHHF
108-	111		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
112-	115		BHHHHHHHHHF	BHHHHHLHMF	BHHHHHLHMF	BHHHHHLHMF
116-	119		BHHHLHHMF	BHHMLHHHLLF	BHLHLHHHMF	BHLHHHLHMF
120-	123		BHLHHHLHMF	BHLHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF
124-	127		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
128-	131		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
132-	135		BHMLLHLHF	BHLHHLLHMF	BHLHHHLHMF	BHLHHHLHMF
136-	139		BHLHHHLHMF	BHLHHHLHMF	BHLHHHHHF	BHHHHHHHHHF
140-	143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-	147		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
148-	151		BHHHLHLHMF	BHHMLHHHMF	BHHHLHHHMF	BHHHLHHHMF
152-	155		BHHLHLHHHF	BHHHLHHHMF	BHHHHHHHHHF	BHHHHHHHHHF
156-	159		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
160-	163		BHHHHHHHHHF	BHLLLLLHF	BHLHHHLHMF	BHLHHHHHLLF
164-	167		BLHHHHHLHF	BLLLLLLHF	BLHHHHHLHF	BHLHHHHHLLF
168-	171		BHLHHHLHMF	BHLLLLLHLF	BHHHHHHHHHF	BHHHHHHHHHF
172-	175		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
176-	179		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
180-	183		BHLHLHHHF	BHLHLHHHF	BHHLLLHHHF	BHHHLHLHMF
184-	187		BHLHLHLHMF	BHLHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
188-	191		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
192-	195		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
196-	199		BHLHHHLHMF	BHLHHHLLHF	BLHHLHLHMF	BLHHLHLHMF
200-	203		BHLHLLHLLF	BHLHLLHMF	BHHHHHHHHHF	BHHHHHHHHHF
204-	207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-	211		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
212-	215		BHLHHHLHMF	BHLHHHLHMF	BHLHHHLHMF	BHLHHHLHMF
216-	219		BHLHHHLHMF	BHLLLLLHMF	BHHHHHLHMF	BHHHHHLHMF
220-	223		BHHHHHLHMF	BHHHHHHHLLF	BHHHHHHHHHF	BHHHHHHHHHF
224-	227		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
228-	231		BHLHHHLLLF	BHLHHHLHMF	BHLHHHLHLF	BHLHHHLHLF
232-	235		BHHHLHLHMF	BHHHHLLHMF	BHHHHHHHHHF	BHHHHHHHHHF
236-	239		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
240-	243		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
244-	247		BHLLLHHHF	BHLHHHLHMF	BHLHHHLHMF	BHLHHHLHMF
248-	251		BHLHHHLHMF	BHLLLHLLHF	BHHHHHHHLLF	BHHHHHHHLLF
252-	255		BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHLLF	BHHHHHHHHHF

256-259	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
260-263	BHLLLLLHF	BHHLHLHLHF	BHHLHLHHHF	BHHLHLHHHF
264-267	BHHHLHLHHHF	BHHHLHLHLHF	BHHHHHHHHHF	BHHHHHHHHHF
268-271	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
272-275	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
276-279	BLLHHLLHHF	BHHHLHLHLLF	BHHLLHHHF	BHHHLHHHF
280-283	BHHHLHLHHF	BHHHLHLHLLF	BHHHLHLHLLF	BHHHLHLHLLF
284-287	BHHHLHLHHF	BHHLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHLLLHHHF	BHHLHLHLHF	BHLHHHLHHF
292-295	BHLHHHLHHF	BHLLLHHHF	BHLHHHLHHF	BHLHHHLHHF
296-299	BHHHLHLHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
300-303	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHLLLHHHF	BHHHLHLHLLF	BHHLHLHHF	BHHLHLHHF
312-315	BHHHLHLHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
316-319	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
320-323	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
324-327	BHLLLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
328-331	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHHHHHHF	BHHLLHLHF	BHHLLLHHHF	BHHHHHLHLF
340-343	BHHHHHLHHF	BHHLLHLHF	BHHLLLHHHF	BHHHHHLHLF
344-347	BHHHHHLHHF	BHHLLLHHHF	BHLHHHHHF	BHLLLHHHF
348-351	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
352-355	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHF
356-359	BHHHLLHHLF	BHHHLHLHHF	BHHLHHHLHF	BHLHHHLHHF
360-363	BHLHHHHHLF	BLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
364-367	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHLHLHHF	BHHHLHLHF	BHHHLHLHF
372-375	BHHHLHHHF	BHHHLHHHF	BHHLHLHHF	BHHHLHLHF
376-379	BHHHLHLHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
380-383	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
384-387	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHLHHHLHF
388-391	BHHHLHLHF	BHHHLHLHF	BHHMLHHHF	BHHMLHHHF
392-395	BHHHLHLHF	BHHHLHLHF	BHHLHHHLHF	BLLHHHLHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
404-407	BLHHHHHLHF	BHLHHHLHF	BHLHHHLHHF	BHLHHHLHHF
408-411	BHLHHHLHHF	BHLLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHHHHHHHHF	BHHHHHLHLF	BHHLLHLHF	BHHLLLHHHF
420-423	BHHHHHLHLF	BHHHHHLHF	BHHHHHLHF	BHHHHHLHF
424-427	BHHHHHLHHF	BHLLLHHHF	BHLHHHHHF	BHLLLHHHF
428-431	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHLHHHF	BHHLLLHHHF	BHLLHHHF
436-439	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
440-443	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHF
452-455	BHLLHHHHHF	BLLLHHHF	BHLLHHHHHF	BHHHLHHHF
456-459	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
460-463	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
464-467	BHHHHHHHHHF	BHLLHLHHF	BHLHLHHLF	BLHHHLHHLF
468-471	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
472-475	BHHHLHHHF	BHHLLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
476-479	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
480-483	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHLHHHF
484-487	BHHHHHLHHF	BLLLHHHF	BHHHHHLHHF	BHHHLHHHF
488-491	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
492-495	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
496-499	BHHHHHHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
500-503	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHLLHHHF
504-507	BHHLLLHHHF	BHHHLHHHF	BHHHHHHHHHF	BHHHHHHHHHF
508-511	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF E

LINE DRAWING SET BITS 0-7 (SPACE)-? (40-77B)

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
-----------	------------	-----------	------------

0	0 1 2 3 4 5 6 7 8	1	0 1 2 3 4 5 6 7 8
0	X X X	0	X X X
1	X X X	1	X X X
2	X X X	2	X X X
3	X X X	3	X X X
4	X X X	4	X X X
5	X X X	5	X X X
6	X X X	6	X X X
7	X X X X X X X	7	X X X X X X X X X X
8	X X X	8	X X X X X X X X X X
9	X X X	9	X
10	X X X	10	X
11	X X X	11	X
12	X X X	12	X
13	X X X	13	X
14	X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
-----------	------------	-----------	------------

2	0 1 2 3 4 5 6 7 8	3	0 1 2 3 4 5 6 7 8
0	X X X	0	
1	X X X	1	
2	X X X	2	
3	X X X	3	
4	X X X	4	
5	X X X	5	
6	X X X	6	X X X X X X X X X X
7	X X X X X X X	7	X X X X X X X X X X
8	X X X	8	X X X X X X X X X X
9	X X X	9	X
10	X X X	10	X
11	X X X	11	X
12	X X X	12	X
13	X X X	13	X
14	X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
-----------	------------	-----------	------------

4	0 1 2 3 4 5 6 7 8	5	0 1 2 3 4 5 6 7 8
0	X	0	X X
1	X	1	X X
2	X	2	X X
3	X	3	X X
4	X	4	X X
5	X	5	X X
6	X X X X X X X X X X	6	X X
7	X X X X X X X X X X	7	X X X X X X X X X X
8	X X X X X X X X X X	8	X X X X X X X X X X
9	X	9	X X
10	X X X	10	X X
11	X X X	11	X X
12	X X X	12	X X
13	X X X	13	X X
14	X X X	14	X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
-----------	------------	-----------	------------

6	0 1 2 3 4 5 6 7 8	7	0 1 2 3 4 5 6 7 8
0	X X X	0	
1	X X X	1	
2	X X X	2	
3	X X X	3	
4	X X X	4	
5	X X X	5	X X X X X X X X X X
6	X X X	6	
7	X X X	7	
8	X X X	8	
9	X X X	9	X X X X X X X X X X
10	X X X	10	X
11	X X X	11	X
12	X X X	12	X
13	X X X	13	X
14	X X X	14	X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
8	0 1 2 3 4 5 6 7 8		9	0 1 2 3 4 5 6 7 8	
0	X		0	X	X
1	X		1	X	X
2	X		2	X	X
3	X		3	X	X
4	X		4	X	X
5	X X X X X X X X X		5	X	X
6			6	X	X
7			7	X	X
8			8	X	X
9	X X X X X X X X X		9	X	X
10			10	X	X
11			11	X	X
12			12	X	X
13			13	X	X
14			14	X	X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
10	0 1 2 3 4 5 6 7 8		11	0 1 2 3 4 5 6 7 8	
0	X X X		0		X
1	X X X		1		X
2	X X X		2		X
3	X X X		3		X
4	X X X		4		X
5	X X X		5		X
6	X X X		6	X X X X X X X X X X	
7	X X X X X X X X X		7	X X X X X X X X X X	
8	X X X		8	X X X X X X X X X X	
9	X X X		9		X
10	X X X		10		X
11	X X X		11		X
12	X X X		12		X
13	X X X		13		X
14	X X X		14		X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
12	0 1 2 3 4 5 6 7 8		13	0 1 2 3 4 5 6 7 8	
0			0		X
1			1		X
2			2		X
3			3		X
4			4		X
5			5		X
6			6		X
7	X X X X X X X X X		7		X
8			8		X
9			9		X
10			10		X
11			11		X
12			12		X
13			13		X
14			14		X X X X X

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
14	0 1 2 3 4 5 6 7 8		15	0 1 2 3 4 5 6 7 8	
0	X		0		X
1	X		1		X
2	X		2		X
3	X		3		X
4	X		4		X
5	X		5		X
6	X		6		X
7	X		7	X X X X X X X X X X	
8	X		8		X
9	X		9		X
10	X		10		X
11	X		11		X
12	X		12		X
13	X		13		X
14	X		14		X

LINE DRAWING SET BITS 0-8 SPACE)-? (40-77B)

CHARACTER DOT COLUMN									CHARACTER DOT COLUMN										
16	0	1	2	3	4	5	6	7	8	17	0	1	2	3	4	5	6	7	8
0		X	X	X						0		X	X	X					
1		X	X	X						1		X	X	X					
2		X	X	X						2		X	X	X					
3		X	X	X						3		X	X	X					
4		X	X	X						4		X	X	X					
5		X	X	X						5		X	X	X					
6	X	X	X	X	X	X	X	X	X	6		X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	7		X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	8		X	X	X	X	X	X	X	X
9		X	X	X						9		X	X	X					
10		X	X	X						10			X	X	X				
11		X	X	X						11			X	X	X				
12		X	X	X						12			X	X	X				
13		X	X	X						13			X	X	X				
14		X	X	X						14			X	X	X				
18	0	1	2	3	4	5	6	7	8	19	0	1	2	3	4	5	6	7	8
0		X	X	X						0									
1		X	X	X						1									
2		X	X	X						2									
3		X	X	X						3									
4		X	X	X						4									
5		X	X	X						5									
6	X	X	X	X	X	X	X	X	X	6		X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	7		X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	8		X	X	X	X	X	X	X	X
9		X	X	X						9			X	X	X				
10		X	X	X						10			X	X	X				
11		X	X	X						11			X	X	X				
12		X	X	X						12			X	X	X				
13		X	X	X						13			X	X	X				
14		X	X	X						14			X	X	X				
20	0	1	2	3	4	5	6	7	8	21	0	1	2	3	4	5	6	7	8
0		X	X	X						0			X						
1		X	X	X						1			X						
2		X	X	X						2			X						
3		X	X	X						3			X						
4		X	X	X						4			X						
5		X	X	X						5			X						
6	X	X	X	X	X	X	X	X	X	6			X						
7	X	X	X	X	X	X	X	X	X	7			X	X	X	X			
8	X	X	X	X	X	X	X	X	X	8			X						
9										9			X						
10										10			X						
11										11			X						
12										12			X						
13										13			X						
14										14			X						
22	0	1	2	3	4	5	6	7	8	23	0	1	2	3	4	5	6	7	8
0			X							0									
1			X							1									
2			X							2									
3			X							3									
4			X							4									
5			X							5									
6			X							6									
7	X	X	X	X	X	X	X	X	X	7		X	X	X	X	X	X	X	X
8			X							8			X						
9			X							9			X						
10			X							10			X						
11			X							11			X						
12			X							12			X						
13			X							13			X						
14			X							14			X						

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
24	0 1 2 3 4 5 6 7 8		25	0 1 2 3 4 5 6 7 8	
0	X		0		
1	X		1		
2	X		2		
3	X		3		
4	X		4		
5	X		5	X X X X X X X X	
6	X		6		
7	X X X X X X X X		7		
8			8		
9			9	X X X X X X X X	
10			10		
11			11		
12			12		
13			13		
14			14		

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
26	0 1 2 3 4 5 6 7 8		27	0 1 2 3 4 5 6 7 8	
0	X X X		0		
1	X X X		1		
2	X X X		2		
3	X X X		3		
4	X X X		4		
5	X X X		5		
6	X X X		6	X X X X X X X X	
7	X X X		7	X X X X X X X X	
8	X X X		8	X X X X X X X X	
9	X X X		9		
10	X X X		10		
11	X X X		11		
12	X X X		12		
13	X X X		13		
14	X X X		14		

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
28	0 1 2 3 4 5 6 7 8		29	0 1 2 3 4 5 6 7 8	
0	X X		0	X X X X X	
1	X X		1	X	
2	X X		2	X	
3	X X		3	X	
4	X X		4	X	
5	X X		5	X	
6	X X		6	X	
7	X X X X X X X X		7	X	
8	X X		8	X	
9	X X		9	X	
10	X X		10	X	
11	X X		11	X	
12	X X		12	X	
13	X X		13	X	
14	X X		14	X	

	CHARACTER	DOT COLUMN		CHARACTER	DOT COLUMN
30	0 1 2 3 4 5 6 7 8		31	0 1 2 3 4 5 6 7 8	
0	X		0	X X	
1	X		1	X X	
2	X		2	X X	
3	X		3	X X	
4	X		4	X X	
5	X X X X X X X X		5	X X X X X X X X	
6	X		6	X X	
7	X		7	X X	
8	X		8	X X	
9	X X X X X X X X		9	X X X X X X X X	
10	X		10	X X	
11	X		11	X X	
12	X		12	X X	
13	X		13	X X	
14	X		14	X X	

## LINE DRAWING SET BITS 0-7 (SPACE)-? (40-778)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHLLLHH	0 HHHLLLHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHLLLHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHLLLHH	2 HHHLLLHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHLLLHH	3 HHHLLLHH	3 HHHHHHHH
4 HHHHHHHH	4 HHHLLLHH	4 HHHLLLHH	4 HHHHHHHH
5 HHHHHHHH	5 HHHLLLHH	5 HHHLLLHH	5 HHHHHHHH
6 HHHHHHHH	6 HHHLLLHH	6 HHHLLLHH	6 LLLLLLLL
7 HHHHHHHH	7 HHHLLLL	7 LLLLLLHH	7 LLLLLLLL
8 HHHHHHHH	8 HHHLLLHH	8 HHHLLLHH	8 LLLLLLLL
9 HHHHHHHH	9 HHHLLLHH	9 HHHLLLHH	9 HHHHLHHH
10 HHHHHHHH	10 HHHLLLHH	10 HHHLLLHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHLLLHH	11 HHHLLLHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHLLLHH	12 HHHLLLHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHLLLHH	13 HHHLLLHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHLLLHH	14 HHHLLLHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHLHHH	0 HHLHHHLH	0 HHLHHHLH	0 HHHHHHHH
1 HHHHLHHH	1 HHLHHHLH	1 HHLHHHLH	1 HHHHHHHH
2 HHHHLHHH	2 HHLHHHLH	2 HHLHHHLH	2 HHHHHHHH
3 HHHHLHHH	3 HHLHHHLH	3 HHLHHHLH	3 HHHHHHHH
4 HHHHLHHH	4 HHLHHHLH	4 HHLHHHLH	4 HHHHHHHH
5 HHHHLHHH	5 HHLHHHLH	5 HHLHHHLH	5 LLLLLLLL
6 LLLLLLLL	6 HHLHHHLH	6 HHLHHHLH	6 HHHHHHHH
7 LLLLLLLL	7 HHLHHHL	7 LLLLHHHLH	7 HHHHHHHH
8 LLLLLLLL	8 HHLHHHLH	8 HHLHHHLH	8 HHHHHHHH
9 HHHHHHHH	9 HHLHHHLH	9 HHLHHHLH	9 LLLLLLLL
10 HHHHHHHH	10 HHLHHHLH	10 HHLHHHLH	10 HHHHLHHH
11 HHHHHHHH	11 HHLHHHLH	11 HHLHHHLH	11 HHHHLHHH
12 HHHHHHHH	12 HHLHHHLH	12 HHLHHHLH	12 HHHHLHHH
13 HHHHHHHH	13 HHLHHHLH	13 HHLHHHLH	13 HHHHLHHH
14 HHHHHHHH	14 HHLHHHLH	14 HHLHHHLH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHLHHH	0 HHLHHHLH	0 HHLHHHLH	0 HHHHLHHH
1 HHHHLHHH	1 HHLHHHLH	1 HHLHHHLH	1 HHHHLHHH
2 HHHHLHHH	2 HHLHHHLH	2 HHLHHHLH	2 HHHHLHHH
3 HHHHLHHH	3 HHLHHHLH	3 HHLHHHLH	3 HHHHLHHH
4 HHHHLHHH	4 HHLHHHLH	4 HHLHHHLH	4 HHHHLHHH
5 LLLLLLLL	5 HHLHHHLH	5 HHLHHHLH	5 HHHHLHHH
6 HHHHHHHH	6 HHLHHHLH	6 HHLHHHLH	6 LLLLLLLL
7 HHHHHHHH	7 HHLHHHLH	7 LLLLLLLL	7 LLLLLLLL
8 HHHHHHHH	8 HHLHHHLH	8 HHLHHHLH	8 LLLLLLLL
9 LLLLLLLL	9 HHLHHHLH	9 HHLHHHLH	9 HHHHLHHH
10 HHHHHHHH	10 HHLHHHLH	10 HHLHHHLH	10 HHHHLHHH
11 HHHHHHHH	11 HHLHHHLH	11 HHLHHHLH	11 HHHHLHHH
12 HHHHHHHH	12 HHLHHHLH	12 HHLHHHLH	12 HHHHLHHH
13 HHHHHHHH	13 HHLHHHLH	13 HHLHHHLH	13 HHHHLHHH
14 HHHHHHHH	14 HHLHHHLH	14 HHLHHHLH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHLHHH	0 HHHHLHHH	0 HHHHLHHH
1 HHHHHHHH	1 HHHHLHHH	1 HHHHLHHH	1 HHHHLHHH
2 HHHHHHHH	2 HHHHLHHH	2 HHHHLHHH	2 HHHHLHHH
3 HHHHHHHH	3 HHHHLHHH	3 HHHHLHHH	3 HHHHLHHH
4 HHHHHHHH	4 HHHHLHHH	4 HHHHLHHH	4 HHHHLHHH
5 HHHHHHHH	5 HHHHLHHH	5 HHHHLHHH	5 HHHHLHHH
6 HHHHHHHH	6 HHHHLHHH	6 HHHHLHHH	6 HHHHLHHH
7 LLLLLLLL	7 HHHHLHHH	7 HHHHLHHH	7 LLLLLLLL
8 HHHHHHHH	8 HHHHLHHH	8 HHHHLHHH	8 HHHHLHHH
9 HHHHHHHH	9 HHHHLHHH	9 HHHHLHHH	9 HHHHLHHH
10 HHHHHHHH	10 HHHHLHHH	10 HHHHLHHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHHLHHH	11 HHHHLHHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHHLHHH	12 HHHHLHHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHHLHHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHHLLLL	14 HHHHLHHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHLLLHH	0 HHHLLLHH	0 HHHLLLHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHLLLHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHLLLHH	2 HHHLLLHH	2 HHHLLLHH	2 HHHHHHHH
3 HHHLLLHH	3 HHHLLLHH	3 HHHLLLHH	3 HHHHHHHH
4 HHHLLLHH	4 HHHLLLHH	4 HHHLLLHH	4 HHHHHHHH
5 HHHLLLHH	5 HHHLLLHH	5 HHHLLLHH	5 HHHHHHHH
6 LLLLLLLL	6 HHHLLLLL	6 LLLLLLLL	6 LLLLLLLL
7 LLLLLLLL	7 HHHLLLLL	7 LLLLLLLL	7 LLLLLLLL
8 LLLLLLLL	8 HHHLLLLL	8 LLLLLLLL	8 LLLLLLLL
9 HHHLLLHH	9 HHHLLLHH	9 HHHLLLHH	9 HHHLLLHH
10 HHHLLLHH	10 HHHLLLHH	10 HHHLLLHH	10 HHHLLLHH
11 HHHLLLHH	11 HHHLLLHH	11 HHHLLLHH	11 HHHLLLHH
12 HHHLLLHH	12 HHHLLLHH	12 HHHLLLHH	12 HHHLLLHH
13 HHHLLLHH	13 HHHLLLHH	13 HHHLLLHH	13 HHHLLLHH
14 HHHLLLHH	14 HHHLLLHH	14 HHHLLLHH	14 HHHLLLHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHLLLHH	0 HHHHLHHH	0 HHHHLHHH	0 HHHHHHHH
1 HHHLLLHH	1 HHHHLHHH	1 HHHHLHHH	1 HHHHHHHH
2 HHHLLLHH	2 HHHHLHHH	2 HHHHLHHH	2 HHHHHHHH
3 HHHLLLHH	3 HHHHLHHH	3 HHHHLHHH	3 HHHHHHHH
4 HHHLLLHH	4 HHHHLHHH	4 HHHHLHHH	4 HHHHHHHH
5 HHHLLLHH	5 HHHHLHHH	5 HHHHLHHH	5 HHHHHHHH
6 LLLLLLLL	6 HHHHLHHH	6 HHHHLHHH	6 HHHHHHHH
7 LLLLLLLL	7 HHHHLHHH	7 LLLLLHHH	7 LLLLLLLL
8 LLLLLLLL	8 HHHHLHHH	8 HHHHLHHH	8 HHHHLHHH
9 HHHHHHHH	9 HHHHLHHH	9 HHHHLHHH	9 HHHHLHHH
10 HHHHHHHH	10 HHHHLHHH	10 HHHHLHHH	10 HHHHLHHH
11 HHHHHHHH	11 HHHHLHHH	11 HHHHLHHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHHLHHH	12 HHHHLHHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHHLHHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHHLHHH	14 HHHHLHHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHLHHH	0 HHHHHHHH	0 HHHLLLHH	0 HHHHHHHH
1 HHHHLHHH	1 HHHHHHHH	1 HHHLLLHH	1 HHHHHHHH
2 HHHHLHHH	2 HHHHHHHH	2 HHHLLLHH	2 HHHHHHHH
3 HHHHLHHH	3 HHHHHHHH	3 HHHLLLHH	3 HHHHHHHH
4 HHHHLHHH	4 HHHHHHHH	4 HHHLLLHH	4 HHHHHHHH
5 HHHHLHHH	5 LLLLLLLL	5 HHHLLLHH	5 HHHHHHHH
6 HHHHLHHH	6 HHHHHHHH	6 HHHLLLHH	6 LLLLLLLL
7 LLLLLLLL	7 HHHHHHHH	7 HHHLLLHH	7 LLLLLLLL
8 HHHHHHHH	8 HHHHHHHH	8 HHHLLLHH	8 LLLLLLLL
9 HHHHHHHH	9 LLLLLLLL	9 HHHLLLHH	9 HHHHHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHLLLHH	10 HHHHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHLLLHH	11 HHHHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHLLLHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHLLLHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHLLLHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
01234567	01234567	01234567	01234567
0 HHLHHHLH	0 HHHHLLLL	0 HHHHLHHH	0 HHLHHHLH
1 HHLHHHLH	1 HHHHLHHH	1 HHHHLHHH	1 HHLHHHLH
2 HHLHHHLH	2 HHHHLHHH	2 HHHHLHHH	2 HHLHHHLH
3 HHLHHHLH	3 HHHHLHHH	3 HHHHLHHH	3 HHLHHHLH
4 HHLHHHLH	4 HHHHLHHH	4 HHHHLHHH	4 HHLHHHLH
5 HHLHHHLH	5 HHHHLHHH	5 LLLLLLLL	5 LLLLLLLL
6 HHLHHHLH	6 HHHHLHHH	6 HHHHLHHH	6 HHLHHHLH
7 LLLLLLLL	7 HHHHLHHH	7 HHHHLHHH	7 HHLHHHLH
8 HHLHHHLH	8 HHHHLHHH	8 HHHHLHHH	8 HHLHHHLH
9 HHLHHHLH	9 HHHHLHHH	9 LLLLLLLL	9 LLLLLLLL
10 HHLHHHLH	10 HHHHLHHH	10 HHHHLHHH	10 HHLHHHLH
11 HHLHHHLH	11 HHHHLHHH	11 HHHHLHHH	11 HHLHHHLH
12 HHLHHHLH	12 HHHHLHHH	12 HHHHLHHH	12 HHLHHHLH
13 HHLHHHLH	13 HHHHLHHH	13 HHHHLHHH	13 HHLHHHLH
14 HHLHHHLH	14 HHHHLHHH	14 HHHHLHHH	14 HHLHHHLH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

## LINE DRAWING SET BITS 0-7

HEWLETT-PACKARD CO.

(SPACE)-? (40-77B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGG

000-003	S	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
004-007		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
008-011		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
012-015		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
016-019		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
020-023		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BLLLLLHHHF
024-027		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
028-031		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
032-035		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
036-039		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLLLF
040-043		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
044-047		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
048-051		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
052-055		BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLLLF	BLLLLLLLF
056-059		BLLLLLLLF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
060-063		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
064-067		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
068-071		BHHHLHHHF	BHHHLHHHF	BLLLLLLLF	BLLLLLLLF
072-075		BLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
076-079		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
080-083		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
084-087		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BLLHHHLHHF
088-091		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
092-095		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
096-099		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
100-103		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLFFF
104-107		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
108-111		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
112-115		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
116-119		BHHHHHHHHHF	BLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF
120-123		BHHHHHHHHHF	BLLLLLLLF	BHHHLHHHF	BHHHLHHHF
124-127		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
128-131		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
132-135		BHHHLHHHF	BLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF
136-139		BHHHHHHHHHF	BLLLLLLLF	BHHHHHHHHHF	BHHHHHHHHHF
140-143		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
144-147		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
148-151		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
152-155		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
156-159		BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
160-163		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
164-167		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BLLLLLLLF
168-171		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
172-175		BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
176-179		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
180-183		BHHHLHHHF	BHHHLHHHF	BLLLLLLLF	BLLLLLLLF
184-187		BLLLLLLLF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
188-191		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
192-195		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
196-199		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLLLF
200-203		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
204-207		BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
208-211		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
212-215		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
216-219		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
220-223		BHHHLHHHF	BHHHLHHHF	BLLLHHHF	BHHHHHHHHHF
224-227		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
228-231		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
232-235		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
236-239		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
240-243		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
244-247		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BLLLLLLLF
248-251		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
252-255		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF

256-259	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
260-263	BHHLLLHHHF	BHHLLLHHHF	BLLLLLFFFF	BLLLLLFFFF
264-267	BLLLLLFFFF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
268-271	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
272-275	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
276-279	BHHLLLHHHF	BHHLLLHHHF	BLLLLLHHHF	BLLLLLHHHF
280-283	BLLLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
284-287	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
288-291	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
292-295	BHHLLLHHHF	BHHLLLHHHF	BHHLLLLLFF	BHHLLLLLFF
296-299	BHHLLLLLFF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
300-303	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLFFFF	BLLLLLFFFF
312-315	BLLLLLFFFF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
316-319	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
320-323	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
324-327	BHHLLLHHHF	BHHLLLHHHF	BLLLLLFFFF	BLLLLLFFFF
328-331	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
332-335	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
336-339	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
340-343	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BLLLLLHHHHF
344-347	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
348-351	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
352-355	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
356-359	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLFFFF
360-363	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
364-367	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
368-371	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
372-375	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLFFFF
376-379	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
380-383	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHHHHHHHF
384-387	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF
388-391	BHHHLHHHHF	BHHHLHHHHF	BHHHLHHHHF	BLLLLLFFFF
392-395	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
396-399	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
400-403	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
404-407	BHHHHHHHHHF	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF
408-411	BHHHHHHHHHF	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF
412-415	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
416-419	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
420-423	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
424-427	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
428-431	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHHF
432-435	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
436-439	BHHHHHHHHHF	BHHHHHHHHHF	BLLLLLFFFF	BLLLLLFFFF
440-443	BLLLLLFFFF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
444-447	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
448-451	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
452-455	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BLLLLLFFFF
456-459	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
460-463	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF
464-467	BLLLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
468-471	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
472-475	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
476-479	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
480-483	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
484-487	BHHHLHHHHF	BLLLLLFFFF	BHHHLHHHF	BHHHLHHHF
488-491	BHHHLHHHHF	BLLLLLFFFF	BHHHLHHHF	BHHHLHHHF
492-495	BHHHLHHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHHF
496-499	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
500-503	BHLHHHLHHF	BLLLLLFFFF	BHLHHHLHHF	BHLHHHLHHF
504-507	BHLHHHLHHF	BLLLLLFFFF	BHLHHHLHHF	BHLHHHLHHF
508-511	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHHF E

LINE DRAWING SET BITS 0-8 @-(UNDERLINE) (100-137B)

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
0	X	0	X X X
1	X	1	X X X
2	X	2	X X X
3	X	3	X X X
4	X	4	X X X
5	X X X X X	5	X X X
6	X	6	X X X X X X X
7	X	7	X X X X X X X
8	X	8	X X X X X X X
9	X X X X X	9	
10	X	10	
11	X	11	
12	X	12	
13	X	13	
14	X	14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
2	X X X	0	X X X X X X X X X
3	X X X	1	X X X X X X X X X
4	X X X	2	X X X X X X X X X
5	X X X	3	X X X X X X X X X
6	X X X X X X X	4	X X X X X X X X X
7	X X X X X X X X X X	5	X X X X X X X X X
8	X X X X X X X X X	6	X X X X X X X X X
9	X X X	7	X X X X X X X X X
10	X X X	8	X X X X X X X X X
11	X X X	9	X X X X X X X X X
12	X X X	10	X X X X X X X X X
13	X X X	11	X X X X X X X X X
14	X X X	12	X X X X X X X X X
		13	X X X X X X X X X
		14	X X X X X X X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
4	X X X X X X X	0	X X X
5	X X X X X X X	1	X X X
6	X X X X X X X	2	X X X
7	X X X X X X X	3	X X X
8	X X X X X X X	4	X X X
9	X X X X X X X	5	X X X
10	X X X X X X X	6	X X X
11	X X X X X X X	7	X X X
12	X X X X X X X	8	X X X
13	X X X X X X X	9	X X X
14	X X X X X X X	10	X X X
		11	X X X
		12	X X X
		13	X X X
		14	X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8
6	X	0	X
7	X	1	X
8	X	2	X
9	X	3	X
10	X	4	X
11	X	5	X
12	X	6	X
13	X X X X X X	7	X X X X X X
14	X X X X X X	8	
		9	
		10	
		11	
		12	
		13	
		14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
8	0 1 2 3 4 5 6 7 8	9	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X X X X X X X X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X
6		6	X
7	X X X X X X X X	7	X X X X X X X X
8	X	8	X
9	X	9	X
10	X	10	X X X X X
11	X	11	X
12		12	X
13		13	X
14		14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
10	0 1 2 3 4 5 6 7 8	11	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X X X X X X X X
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7	X X X X X X X X	7	X X X X X X X X
8	X	8	X
9	X	9	X
10	X	10	X
11	X	11	X
12		12	
13		13	
14		14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
12	0 1 2 3 4 5 6 7 8	13	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X X X X X X X X
1		1	X X X
2		2	X X X
3		3	X X X
4		4	X X X
5		5	X X X
6		6	X X X X X X X X
7	X X X X X X X X	7	X X X X X X X X
8	X X X X X X X X	8	X X X X X X X X
9	X X X X X X X X	9	X
10	X X X X X X X X	10	X
11	X X X X X X X X	11	X
12		12	X
13		13	X
14		14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
14	0 1 2 3 4 5 6 7 8	15	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X X X X X X X X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X X X X X
6	X X X X X X X X	6	X
7	X X X X X X X X	7	X
8	X X X X X X X X	8	X
9	X X X X X X X X	9	X
10	X X X X X X X X	10	X X X X X
11	X X X X X X X X	11	X
12	X X X X X X X X	12	X
13	X X X X X X X X	13	X
14	X X X X X X X X	14	X

LINE DRAWING SET BITS 0-8 @-(UNDERLINE) (100-137B)

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
16	0 1 2 3 4 5 6 7 8	17	0 1 2 3 4 5 6 7 8

0	X	0	
1	X	1	
2	X	2	
3	X	3	
4	X	4	
5	X	5	
6	X	6	X X X X X X
7	X	7	X X X X X X
8	X	8	X X X X X X
9	X	9	X X X
10	X	10	X X X
11	X	11	X X X
12	X	12	X X X
13	X	13	X X X
14	X X X X X	14	X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
18	0 1 2 3 4 5 6 7 8	19	0 1 2 3 4 5 6 7 8

0		0	X X X
1		1	X X X
2		2	X X X
3		3	X X X
4		4	X X X
5		5	X X X
6		6	X X X X X X
7	X X X X X	7	X X X X X X
8	X	8	X X X X X X
9	X	9	
10	X	10	
11	X	11	
12	X	12	
13	X	13	
14	X	14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
20	0 1 2 3 4 5 6 7 8	21	0 1 2 3 4 5 6 7 8

0		0	X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X X X X X
6		6	X
7	X X X X X	7	X
8	X	8	X
9	X	9	X
10	X	10	X
11	X	11	X
12	X	12	X
13	X	13	X
14	X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
22	0 1 2 3 4 5 6 7 8	23	0 1 2 3 4 5 6 7 8

0	X X X	0	
1	X X X	1	
2	X X X	2	
3	X X X	3	
4	X X X	4	
5	X X X	5	
6	X X X X X X X	6	X X X X X X X
7	X X X X X X X X	7	X X X X X X X X
8	X X X X X X X	8	X X X X X X X
9	X X X	9	X X X
10	X X X	10	X X X
11	X X X	11	X X X
12	X X X	12	X X X
13	X X X	13	X X X
14	X X X	14	X X X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
24	0 1 2 3 4 5 6 7 8	25	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X X X X X X
1		1	X
2		2	X
3		3	X
4		4	X
5	X X X X X X X X	5	X
6	X X X X X X X X	6	X
7	X X X X X X X X	7	X
8	X X X X X X X X	8	X
9	X X X X X X X X	9	X
10	X X X X X X X X	10	X
11	X X X X X X X X	11	X
12	X X X X X X X X	12	X
13	X X X X X X X X	13	X
14	X X X X X X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
26	0 1 2 3 4 5 6 7 8	27	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X
1		1	X
2		2	X
3		3	X
4		4	X
5	X X X X X X X X	5	X X X X X X
6		6	X
7		7	X
8		8	X
9		9	X X X X X X
10	X X X X X X X X	10	X
11	X X X X X X X X	11	X
12	X X X X X X X X	12	X
13	X X X X X X X X	13	X
14	X X X X X X X X	14	X

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
28	0 1 2 3 4 5 6 7 8	29	0 1 2 3 4 5 6 7 8
0	X X X X X X X X	0	X
1		1	X
2		2	X
3		3	X
4		4	X
5		5	X
6		6	X
7	X X X	7	X X X X X X X X X X
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	

CHARACTER	DOT COLUMN	CHARACTER	DOT COLUMN
30	0 1 2 3 4 5 6 7 8	31	0 1 2 3 4 5 6 7 8
0	X X X	0	
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	X X X X X X X X X X
8		8	X X X X X X X X X X
9		9	X X X X X X X X X X
10		10	X X X X X X X X X X
11		11	X X X X X X X X X X
12		12	X X X X X X X X X X
13		13	X X X X X X X X X X
14		14	X X X X X X X X X X

LINE DRAWING SET BITS 0-7 @-(UNDERLINE) (100-137B)

01234567	01234567	01234567	01234567
0 HHHHLHHH	0 HHHLLLHH	0 HHHLLHHH	0 LLLLLLLL
1 HHHHLHHH	1 HHHLLLHH	1 HHHLLHHH	1 LLLLLLLL
2 HHHHLHHH	2 HHHLLLHH	2 HHHLLHHH	2 LLLLLLLL
3 HHHHLHHH	3 HHHLLLHH	3 HHHLLHHH	3 LLLLLLLL
4 HHHHLHHH	4 HHHLLLHH	4 HHHLLHHH	4 LLLLLLLL
5 HHHHLLL	5 HHHLLLHH	5 HHHLLHHH	5 LLLLLLLL
6 HHHHLHHH	6 HHHLLLHH	6 LLLLLHHH	6 LLLLLLLL
7 HHHHLHHH	7 HHHLLLHH	7 LLLLLHHH	7 LLLLLLLL
8 HHHHLHHH	8 HHHLLLHH	8 LLLLLHHH	8 LLLLLLLL
9 HHHHLLL	9 HHHHHHHH	9 HHHLLHHH	9 LLLLLLLL
10 HHHHLHHH	10 HHHHHHHH	10 HHHLLHHH	10 LLLLLLLL
11 HHHHLHHH	11 HHHHHHHH	11 HHHLLHHH	11 LLLLLLLL
12 HHHHLHHH	12 HHHHHHHH	12 HHHLLHHH	12 LLLLLLLL
13 HHHHLHHH	13 HHHHHHHH	13 HHHLLHHH	13 LLLLLLLL
14 HHHHLHHH	14 HHHHHHHH	14 HHHLLHHH	14 LLLLLLLL
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 LLLLLLHH	0 LLLHHHHH	0 HHHHLHHH	0 HHHHLHHH
1 LLLLLLHH	1 LLLHHHHH	1 HHHHLHHH	1 HHHHLHHH
2 LLLLLLHH	2 LLLHHHHH	2 HHHHLHHH	2 HHHHLHHH
3 LLLLLLHH	3 LLLHHHHH	3 HHHHLHHH	3 HHHHLHHH
4 LLLLLLHH	4 LLLHHHHH	4 HHHHLHHH	4 HHHHLHHH
5 LLLLLLHH	5 LLLHHHHH	5 HHHHLHHH	5 HHHHLHHH
6 LLLLLLHH	6 LLLHHHHH	6 HHHHLHHH	6 HHHHLHHH
7 LLLLLLHH	7 LLLHHHHH	7 HHHHLLLL	7 LLLLLHHH
8 LLLLLLHH	8 LLLHHHHH	8 HHHHHHHH	8 HHHHHHHH
9 LLLLLLHH	9 LLLHHHHH	9 HHHHHHHH	9 HHHHHHHH
10 LLLLLLHH	10 LLLHHHHH	10 HHHHHHHH	10 HHHHHHHH
11 LLLLLLHH	11 LLLHHHHH	11 HHHHHHHH	11 HHHHHHHH
12 LLLLLLHH	12 LLLHHHHH	12 HHHHHHHH	12 HHHHHHHH
13 LLLLLLHH	13 LLLHHHHH	13 HHHHHHHH	13 HHHHHHHH
14 LLLLLLHH	14 LLLHHHHH	14 HHHHHHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 LLLLLHHH	0 HHHHHHHH	0 HHHHHHHH
1 HHHHHHHH	1 HHHHLHHH	1 HHHHHHHH	1 HHHHHHHH
2 HHHHHHHH	2 HHHHLHHH	2 HHHHHHHH	2 HHHHHHHH
3 HHHHHHHH	3 HHHHLHHH	3 HHHHHHHH	3 HHHHHHHH
4 HHHHHHHH	4 HHHHLHHH	4 HHHHHHHH	4 HHHHHHHH
5 HHHHHHHH	5 HHHHLHHH	5 HHHHHHHH	5 HHHHHHHH
6 HHHHHHHH	6 HHHHLHHH	6 HHHHHHHH	6 HHHHHHHH
7 LLLLLL	7 HHHHLHHH	7 LLLLLL	7 LLLLLL
8 HHHHHHHH	8 HHHHLHHH	8 HHHHLHHH	8 HHLHHHHH
9 HHHHHHHH	9 HHHHLHHH	9 HHHHLHHH	9 HHLHHHHH
10 HHHHHHHH	10 LLLLLHHH	10 HHHHLHHH	10 HHLHHHHH
11 HHHHHHHH	11 HHHHLHHH	11 HHHHLHHH	11 HHLHHHHH
12 HHHHHHHH	12 HHHHLHHH	12 HHHHLHHH	12 HHHHHHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHHLHHH	13 HHHHHHHH
14 HHHHHHHH	14 HHHHLHHH	14 HHHHLHHH	14 HHHHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
0 HHHHHHHH	0 HHHLLLHH	0 HHHHLHHH	0 LLLLLHHH
1 HHHHHHHH	1 HHHLLLHH	1 HHHHLHHH	1 HHHHLHHH
2 HHHHHHHH	2 HHHLLLHH	2 HHHHLHHH	2 HHHHLHHH
3 HHHHHHHH	3 HHHLLLHH	3 HHHHLHHH	3 HHHHLHHH
4 HHHHHHHH	4 HHHLLLHH	4 HHHHLHHH	4 HHHHLHHH
5 HHHHHHHH	5 HHHLLLHH	5 HHHHLHHH	5 LLLLLHHH
6 HHHHHHHH	6 LLLLLL	6 LLLLLL	6 HHHHLHHH
7 LLLLLL	7 LLLLLL	7 LLLLLL	7 HHHHLHHH
8 HHLHHHHH	8 LLLLLL	8 LLLLLL	8 HHHHLHHH
9 HHLHHHHH	9 HHHHLHHH	9 HHHHLHHH	9 HHHHLHHH
10 HHLHHHHH	10 HHHHLHHH	10 HHHLLHHH	10 LLLLLHHH
11 HHLHHHHH	11 HHHHLHHH	11 HHHLLHHH	11 HHHHLHHH
12 HHHHHHHH	12 HHHHLHHH	12 HHHLLHHH	12 HHHHLHHH
13 HHHHHHHH	13 HHHHLHHH	13 HHHLLHHH	13 HHHHLHHH
14 HHHHHHHH	14 HHHHLHHH	14 HHHLLHHH	14 HHHHLHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH

01234567	01234567	01234567	01234567
0 HHHHLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 HHHHLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 LLLLLHHH 15 HHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHLLLHHH 7 HHHLLLHHH 8 HHHLLLHHH 9 HHHLLLHHH 10 HHHLLLHHH 11 HHHLLLHHH 12 HHHLLLHHH 13 HHHLLLHHH 14 HHHLLLHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 HHHHHLLL 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHLLLHHH 1 HHHLLLHHH 2 HHHLLLHHH 3 HHHLLLHHH 4 HHHLLLHHH 5 HHHLLLHHH 6 LLLLLHHH 7 LLLLLHHH 8 LLLLLHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 LLLLLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHHLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 LLLLLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHLLLHHH 1 HHHLLLHHH 2 HHHLLLHHH 3 HHHLLLHHH 4 HHHLLLHHH 5 HHHLLLHHH 6 HHHLLLHHH 7 LLLLLHHH 8 LLLLLHHH 9 HHHLLLHHH 10 HHHLLLHHH 11 HHHLLLHHH 12 HHHLLLHHH 13 HHHLLLHHH 14 HHHLLLHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 LLLLLHHH 7 LLLLLHHH 8 LLLLLHHH 9 HHHLLLHHH 10 HHHLLLHHH 11 HHHLLLHHH 12 HHHLLLHHH 13 HHHLLLHHH 14 HHHLLLHHH 15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 LLLLLLL 6 LLLLLLL 7 LLLLLLL 8 LLLLLLL 9 LLLLLLL 10 LLLLLLL 11 LLLLLLL 12 LLLLLLL 13 LLLLLLL 14 LLLLLLL 15 HHHHHHHHH	0 LLLLLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 HHHHLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 HHHHLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 HHHHHHHHH 8 HHHHHHHHH 9 HHHHHHHHH 10 LLLLLLLL 11 LLLLLLLL 12 LLLLLLLL 13 LLLLLLLL 14 LLLLLLLL 15 HHHHHHHHH	0 HHHHLHHH 1 HHHHLHHH 2 HHHHLHHH 3 HHHHLHHH 4 HHHHLHHH 5 LLLLLHHH 6 HHHHLHHH 7 HHHHLHHH 8 HHHHLHHH 9 LLLLLHHH 10 HHHHLHHH 11 HHHHLHHH 12 HHHHLHHH 13 HHHHLHHH 14 HHHHLHHH 15 HHHHHHHHH
01234567	01234567	01234567	01234567
0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 LLLLHHHLL 8 HHHHHHHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH	0 HHLHHHLH 1 HHLHHHLH 2 HHLHHHLH 3 HHLHHHLH 4 HHLHHHLH 5 HHLHHHLH 6 HHLHHHLH 7 LLLLHHHLL 8 HHHHHHHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 HHHLLLHHH 8 HHHHHHHHH 9 HHHHHHHHH 10 HHHHHHHHH 11 HHHHHHHHH 12 HHHHHHHHH 13 HHHHHHHHH 14 HHHHHHHHH 15 HHHHHHHHH	0 HHHHHHHHH 1 HHHHHHHHH 2 HHHHHHHHH 3 HHHHHHHHH 4 HHHHHHHHH 5 HHHHHHHHH 6 HHHHHHHHH 7 LLLLLLLL 8 HHLHHHLH 9 HHLHHHLH 10 HHLHHHLH 11 HHLHHHLH 12 HHLHHHLH 13 HHLHHHLH 14 HHLHHHLH 15 HHHHHHHHH

## LINE DRAWING SET BITS 0-7

HEWLETT-PACKARD CO.

W-(UNDERLINE) (100-137B)

MMI 4K PROM FORMAT

GGGGGGGGGGGGGGGGGGGGGGGGGGGG

000-003	S	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
004-007		BHHHLHHHF	BLLLHHHF	BHHHLHHHF	BHHHLHHHF
008-011		BHHHLHHHF	BLLLHHHF	BHHHLHHHF	BHHHLHHHF
012-015		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
016-019		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
020-023		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
024-027		BLLLHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
028-031		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
032-035		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
036-039		BHHLLHHHF	BHHLLHHHF	BHHLLLLLF	BHHLLLLLF
040-043		BHHLLLLLF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
044-047		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHHHHHHHF
048-051		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
052-055		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
056-059		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
060-063		BHHLLLLLF	BHHLLLLLF	BHHHHHHHHF	BHHHHHHHHF
064-067		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
068-071		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
072-075		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHLLLLLF
076-079		BHHLLLLLF	BHHLLLLLF	BHHLLLLLF	BHHHHHHHHF
080-083		BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF
084-087		BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF
088-091		BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF
092-095		BHHHHHLLLF	BHHHHHLLLF	BHHHHHLLLF	BHHHHHHHHF
096-099		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
100-103		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BLLLHHHF
104-107		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
108-111		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
112-115		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
116-119		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLLLL LF
120-123		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
124-127		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
128-131		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
132-135		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
136-139		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
140-143		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
144-147		BHHHLLLL LF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
148-151		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
152-155		BHHHLHHHF	BHHHLHHHF	BHHHLLLL LF	BHHHLHHHF
156-159		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
160-163		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
164-167		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
168-171		BHHLHHHHHF	BHHLHHHHHF	BHHLHHHHHF	BHHLHHHHHF
172-175		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
176-179		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
180-183		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
184-187		BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF	BHHHHHLHHF
188-191		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
192-195		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
196-199		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
200-203		BHHLHHLHHF	BHHLHHLHHF	BHHLHHLHHF	BHHLHHLHHF
204-207		BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
208-211		BHHLLHHHF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
212-215		BHHLLHHHF	BHHLLHHHF	BHHLLLLL LF	BHHLLLLL LF
216-219		BHHLLLLL LF	BHHLLHHHF	BHHLLHHHF	BHHLLHHHF
220-223		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
224-227		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
228-231		BHHHLHHHF	BHHHLHHHF	BHHLLLLLL LF	BHHLLLLLL LF
232-235		BHHLLLLLL LF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
236-239		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
240-243		BHHHLLLL LF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
244-247		BHHHLHHHF	BHHHLLLL LF	BHHHLHHHF	BHHHLHHHF
248-251		BHHHLHHHF	BHHHLHHHF	BHHHLLLL LF	BHHHLHHHF
252-255		BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF

256-259	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
260-263	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
264-267	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
268-271	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
272-275	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
276-279	BHHHHHHHHF	BHHHHHHHHF	BLLLLLHHHF	BLLLLLHHHF
280-283	BLLLLLHHHF	BHLLLHHHF	BHLLLHHHF	BHLLLHHHF
284-287	BHLLLHHHF	BHLLLHHHF	BHLLLHHHF	BHLLLHHHF
288-291	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
292-295	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLLLHHHF
296-299	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
300-303	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
304-307	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
308-311	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
312-315	BHHLLLHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
316-319	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
320-323	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
324-327	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHLLLHF
328-331	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
332-335	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
336-339	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
340-343	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
344-347	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
348-351	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
352-355	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
356-359	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
360-363	BLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
364-367	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHF
368-371	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
372-375	BHHHHHHHHF	BHHHHHHHHF	BHHLLLHHHF	BHHLLLHHHF
376-379	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF
380-383	BHHLLLHHHF	BHHLLLHHHF	BHHLLLHHHF	BHHHHHHHHF
384-387	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
388-391	BHHHHHHHHF	BLLLHHHF	BLLLHHHF	BLLLHHHF
392-395	BLLLHHHF	BLLLHHHF	BLLLHHHF	BLLLHHHF
396-399	BLLLHHHF	BLLLHHHF	BLLLHHHF	BHHHHHHHHF
400-403	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
404-407	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
408-411	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
412-415	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
416-419	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
420-423	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
424-427	BHHHHHHHHF	BHHHHHHHHF	BLLLHHHF	BLLLHHHF
428-431	BLLLHHHF	BLLLHHHF	BLLLHHHF	BHHHHHHHHF
432-435	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
436-439	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
440-443	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF
444-447	BHHHLHHHF	BHHHLHHHF	BHHHLHHHF	BHHHHHHHHF
448-451	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
452-455	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLHHHLLHF
456-459	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
460-463	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
464-467	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
468-471	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BLLLHHHF
472-475	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
476-479	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
480-483	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
484-487	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHLLLHHHF
488-491	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
492-495	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
496-499	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF
500-503	BHHHHHHHHF	BHHHHHHHHF	BHHHHHHHHF	BLLLHHHF
504-507	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF
508-511	BHLHHHLHHF	BHLHHHLHHF	BHLHHHLHHF	BHHHHHHHHF E

LINE DRAWING SET BIT 8 (NUL-DEL) (000-1778)

01234567	01234567	01234567	01234567
0 HHHHHHHH	0 HHHHHHHH	0 HHHHHHHH	0 HMLHHHHH
1 HHHHHHHH	1 HHHHHHHH	1 HHHHHHHH	1 HHLHHHHH
2 HHHHHHHH	2 HHHHHHHH	2 HHHHHHHH	2 HMLHHHHH
3 HHHHHHHH	3 HHHHHHHH	3 HHHHHHHH	3 HHLHHHHH
4 HHHHHHHH	4 HHHHHHHH	4 HHHHHHHH	4 HHLHHHHH
5 HHLHHHHH	5 HHHHHHHH	5 HHHHHHHH	5 HHLHHHHH
6 HHHHHHHH	6 HHLHHHHH	6 HHHHHHHH	6 HLLHHHHH
7 HHHHHHHH	7 HLLHHHHH	7 HHLHHHHH	7 HLLHHHHH
8 HHHHHHHH	8 HHLHHHHH	8 HHHHHHHH	8 HLLHHHHH
9 HHLHHHHH	9 HHHHHHHH	9 HHHHHHHH	9 HHLHHHHH
10 HHHHHHHH	10 HHHHHHHH	10 HHHHHHHH	10 HHLHHHHH
11 HHHHHHHH	11 HHHHHHHH	11 HHHHHHHH	11 HHLHHHHH
12 HHHHHHHH	12 HHHHHHHH	12 HHHHHHHH	12 HHLHHHHH
13 HHHHHHHH	13 HHHHHHHH	13 HHHHHHHH	13 HHLHHHHH
14 HHHHHHHH	14 HHHHHHHH	14 HHHHHHHH	14 HHLHHHHH
15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH	15 HHHHHHHH
	01234567	01234567	01234567
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276-279	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHLLHF	BHHHHHHLLHF
280-283	BHHHHHHLLHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
284-287	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
288-291	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
292-295	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF
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304-307	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
308-311	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHLHF
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320-323	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
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340-343	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHLHF
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360-363	BHHHHHLHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
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368-371	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF	BHHHHHHHHHF
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404-407	BHHHHHHHHHF	BHHHHHHHLHF	BHHHHHHHHHF	BHHHHHHHHHF
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500-503	BHHHHHHHHHF	BHHHHHLHF	BHHHHHHHHHF	BHHHHHLHHF
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