

1620 CARD SYSTEM DEMONSTRATION

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## DECK KEY

1. Machine Language Deck

### 1620 Card System Demonstration

A. <u>Purpose/Description</u>: To simply demonstrate the 1620 card system's arithmetic, reading, punching and typing abilities.

Holor States of Type by Andry S. Differ and For Markett.

- B. Method: N/A
- C. Restrictions and Range: N/A
- D. Accuracy: N/A
- E. <u>Machine Configuration</u>: 1620 with card input/output, no special features, any core size.
- F. Program Requirements: N/A
- G. Source Language: N/A as the program is written in machine language.
- H. Program Execution Time: 5 Minutes.
- I. Check-Out Status: N/A
- J. Sample Problem Running Time: 5 Minutes
- K. <u>Comments</u>: This program and its documentation were written by an IBM employee. It was developed for a specific purpose and submitted for general distribution to interested parties in the hope that it might prove helpful to other members of the data processing community. The program and its documentation are essentially in the author's original form. IBM serves as the distribution agency in supplying this program. Questions concerning the use of the program should be directed to the author's attention.

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### Program Description

This is a short program used to demonstrate the 1620 card system. As shown by the typed output sample, various facts about the 1620 are typed out, and its arithmetic speed and input-output abilities are demonstrated.

The program deck consists of 27 cards:

Card 1, the loading card,
Cards 2 and 3, the addition table,
Cards 4-11, the program,
Cards 12-27, the "data", cards carrying the information which is to be typed out. The 12th and 27th cards may be changed from "your IBM office" to any desired name.

The program is written in machine language and requires only the basic card system. The running time is about five minutes.

## Operating Instructions

Console switches have no effect.

Set margins at 13 and 96.

#### Clear Core:

RESET

INSERT

Type 16 00010 00000

RELEASE

START

INSTANT STOP (after \$ second pause)

RESET

Load deck in Read Hopper.

LOAD

Program comes to halt.
Align paper on new sheet.

START

MAY I EXTEND A WELCOME TO ALL OF YOU FRO YOUR IBM OFFICE.

IF YOU WILL PRESS START I WILL GIVE YOU SOME INFORMATION ABOUT MYSELF.

I AM A SOLID STATE, FULLY TRANSISTORIZED IBM 1620 ELECTRONIC COMPUTER. I AM READING THIS INFORMATION FROM PUNCHED CARDS AT THE RATE OF 250 CARDS PER MINUTE (333 CHARACTERS PER SECOND) AND AM TYPING IT AT 10 CHARACTERS PER SECOND.

IF YOU PRESS START AGAIN, I WILL PUNCH CARDS AT THE RATE OF 125 PER MINUTE.

I WILL NOW DEMONSTRATE MY ARITHMETIC ABILITY. I WILL ADD TEN 20-DIGIT NUMBERS TOGETHER. TYPING AFTER EACH ADDITION.

09 10

01

I WILL NOW CONTINUE THIS OPERATION, BUT WILL TYPE ONLY AFTER 100 ADDITIONS, 1,000 AND FINALLY 10,000 ADDITIONS (ACTUALLY I AM PERFORMING TEST AND BRANCH INSTRUCTIONS ALONG WITH EACH ADD INSTRUCTION).

100 1000 10000

I CAN DO ADDITIONS AND SUBTRACTIONS AT THE RATE OF 1,780 PER SECOND (5 DIGIT NUMBERS) AND CAN DO MULTIPLICATIONS AT THE RATE OF 200 PER SECOND (5 DIGIT NUMBERS BY 5 DIGIT NUMBERS).

I HAVE 20,000 POSITIONS OF CORE STORAGE AND CAN BE EXPANDED TO 100,000. I DO AN ODD BIT PARITY CHECK ON ALL INPUT DATA, INTERNAL DATA MOVEMENTS AND OUTPUT DATA. READING, COMPUTING AND PUNCHING CAN PROCEED SIMULTANEOUSLY.

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I CAN BE OBTAINED AS A PAPER TAPE SYSTE ALSO -- I WOULD READ TAPE AT THE RATE OF 150 CHARACTERS PER SECOND, AND PUNCH TAPE AT 15 CHARACTERS PER SECOND.

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THANK YOU FOR COMING TO SEE ME.

ELIMINATION ABOUT ME CAN BE OBTAINED FROM YOUR IBM OFFICE.

# 1620 Data Processing System PROGRAM INSTRUCTION SHEET

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MAY I EXTEND A WELCOME TO ALL OF YOU FROM THE PURDUE CALUMET CAMPUS.

IF YOU WILL PRESS START I WILL GIVE YOU SOME INFORMATION ABOUT MYSELF.

I AM A SOLID STATE, FULLY TRANSISTORIZED IBM 1620 ELECTRONIC COMPUTER. I AM READING THIS INFORMATION FROM PUNCHED CARDS AT THE RATE OF 250 CARDS PER MINUTE (333 CHARACTERS PER SECOND) AND AM TYPING IT AT 10 CHARACTERS PER SECOND.

IF YOU PRESS START AGAIN, I WILL PUNCH CARDS AT THE RATE OF 125 PER MINUTE.

I WILL NOW DEMONSTRATE MY ARITHMETIC ABILITY. I WILL ADD TEN 20-DIGIT NUMBERS TOGETHER. TYPING AFTER EACH ADDITION.

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I WILL NOW CONTINUE THIS OPERATION, BUT WILL TYPE ONLY AFTER 100 ADDITIONS, 1,000 AND FINALLY 10,000 ADDITIONS (ACTUALLY I AM PERFORMING TEST AND BRANCH INSTRUCTIONS ALONG WITH EACH ADD INSTRUCTION).

100 1000 10000

1 CAN DO ADDITIONS AND SUBTRACTIONS AT THE RATE OF 1,780 PER SECOND (5 DIGIT NUMBERS) AND CAN DO MULTIPLICATIONS AT THE RATE OF 200 PER SECOND (5 DIGIT NUMBERS BY 5 DIGIT NUMBERS).

I HAVE 20,000 POSITIONS OF CORE STORAGE AND CAN BE EXPANDED TO 100,000.

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·	11111	BBBB	M · M	1	6	222	ØØØØ
	1	В В	MM MM	11	6	2	ØØ
		BBBB	M $M$ $M$	1	6666	2222	ØØ
	1	в в	M M	1	6 6	2	ØØ
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THANK YOU FOR COMING TO SEE ME.

MORE INFORMATION ABOUT ME CAN BE OBTAINED FROM IT 10 OR IT 12.

MAY I EXTEND A WELCOME TO ALL OF YOU FROM THE PURDUE CALUMET CAMPUS.

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Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 Ø7 Ø8 Ø9

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	1	в в	M M	1	6 6	2	ØØ
		BBBB	M M	11111	6666	2222	ØØØØ

THANK YOU FOR COMING TO SEE ME.