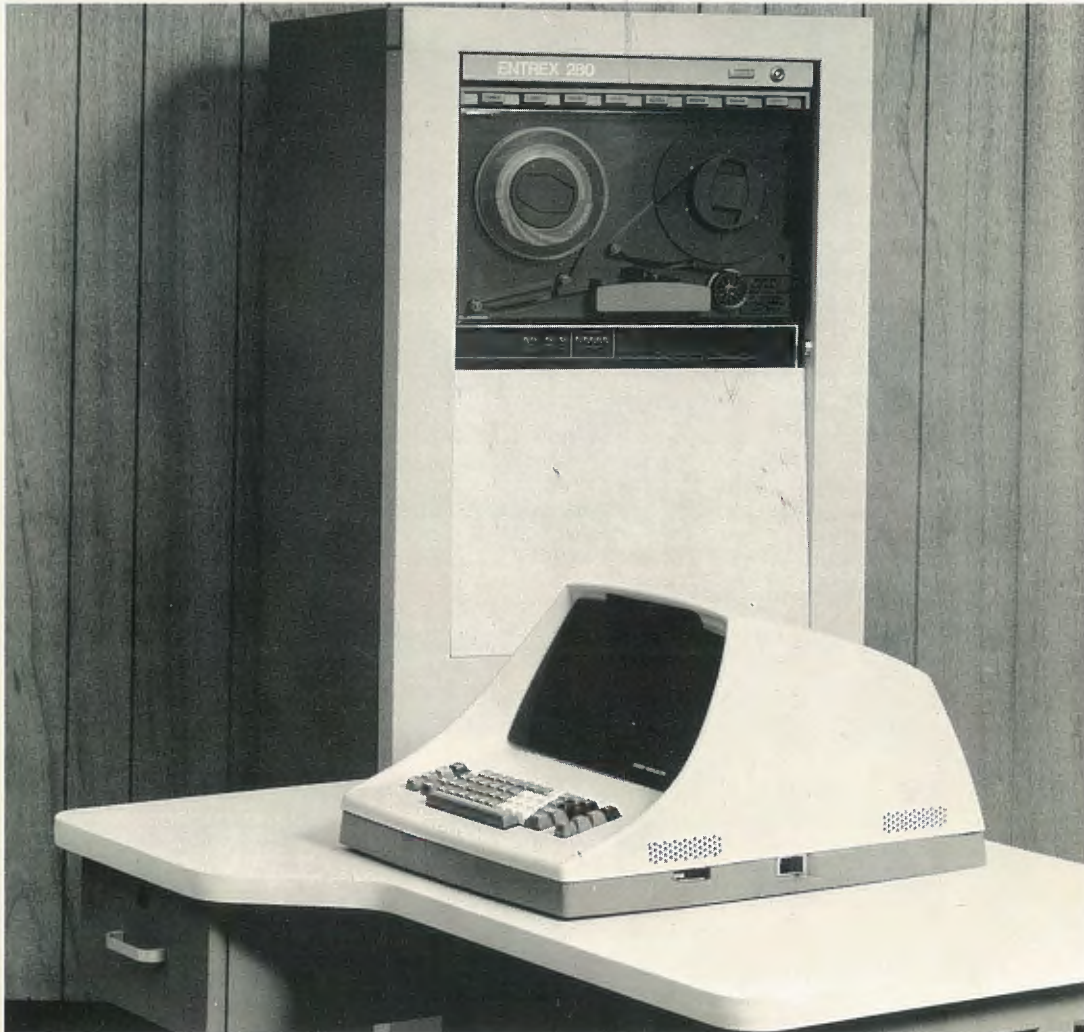




# ENTREX SYSTEM 280-1 PRICE-PERFORMANCE EVALUATION



*cursor*

System 280-1 is the easiest-to-learn, easiest-to-operate key-to-disk system available today. Our 360 character display, our *exclusive HELP Key*, and our tutorial prompting approach to data entry were designed for constant operator-machine interaction. HELP Lists guide operators through all normal data entry activity, while the system displays alternatives for unfamiliar situations.

Data entry is further simplified by allowing operators to key data as it appears on the source document — jumping about the document to capture specific fields in a specified order is a thing of

the past. Add to that the enhanced operator performance and data management capabilities inherent in this system, and the potential savings are easily apparent.

System 280-1 also offers the small keypunch User the most comprehensive validity checks and the simplest error correction procedures in the industry. Errors are caught with the source document in hand, while procedures such as error flag insertion, searching, record insert/delete, and non-destructive location return are standard in both entry and verify modes.

# SYSTEM 280-1 FEATURE DESCRIPTION\*

## ALPHABETIC-ONLY FIELDS

Alphabetic-only definition prevents the operator from entering the digits 0 through 9 in the field. The keyboard locks and an error message is displayed if the operator attempts to enter a digit.

## NUMERIC-ONLY FIELDS

Only the digits 0 through 9 and the plus or minus sign are permitted in numeric-only fields. The keyboard locks and an error message is displayed if an attempt to enter any other character is made.

## MANDATORY ENTRY AND COMPLETION FIELDS

Specifying mandatory entry for a field during data entry insures that at least one character must be entered. Specifying mandatory completion for a field insures that the operator enters a character into each position of the field.

## RIGHT JUSTIFICATION

When a field specified for right justification is released by the operator, the data is shifted to the right hand boundary of the field. Character positions to the left that do not contain keyed data are filled with spaces or zeros, as desired.

## ZERO OR SPACE FILLING

All unused character positions of a field can be filled with either zeros or spaces when the operator releases the field. The type of filling desired can be specified regardless of whether right justification is specified.

## FIELD BOUNDARY CHECK

The field boundary check prevents the operator from keying an excess of characters into the field and, thereby, overflowing into the next field.

## RANGE CHECKS

Range checks insure that the number entered is not above or below a specified range. If the number is not within the range, an error message is displayed.

## VALUE SET COMPARISONS

System 280-1 can maintain up to seven value tables for rapid table lookup and comparison at input time.

## CHECK DIGITS

System 280-1 can validate or generate a check digit in modulus 7, 10, 11, complemented, or uncomplemented as well as many other standard or non standard User defined check digits.

## AUTOMATIC DUPLICATING AND SKIPPING

Automatic duplicating causes data from one record to be copied into corresponding positions of the next record and requires no keystrokes by the operator. Automatic field skipping can be specified for fields that are normally space or zero filled. Automatic functions are turned on or off using the AUTO key.

## AUTOMATICALLY EMITTED DATA

Standard data is automatically inserted in the record during entry or output. No keystrokes are required.

## AUTOMATIC INCREMENT FIELDS

The automatic increment function provides for a field to be designated as a record counter. A count of one is added to the field each time a new record is processed by the system.

## COMPLETE CURSOR CONTROL

A Cursor (blinking rectangle) always indicates the operator's position in the batch. The Cursor can be moved forward or backward a character, field or record for error correction or examination.

## NON-DESTRUCTIVE LOCATION RETURN

One keystroke returns the Cursor to the previous keying position after a backspacing operation.

## ERROR FLAG INSERTION

Fields that cannot pass a validity check (e.g., range check) because of a source document error can be flagged.

## SIGNED NUMERIC FIELDS

A simple key depression automatically oversigns any key in a field. The sign can be either plus (+) or minus (-).

## FIELD/RECORD CORRECT

Simple key depressions allow the rekeying of an entire character, field, or record in entry or verify mode.

## DELETE/INSERT RECORDS

Delete and insert keys allow the deletion of new records at any point in a previously entered batch. When records are inserted and/or deleted, all record numbers are updated accordingly.

## SEARCH FOR ERROR FLAG

Any batch can be searched and only those records containing error flags are displayed. The Cursor is positioned on the error flag to facilitate correction.

## SELECTIVE VERIFICATION

Verification by rekeying or visual verification can be specified on a field-by-field basis. The verify operator needs to rekey critical fields only. Conditional verification based on the results of batch balancing is also standard.

## SEARCH FOR RECORD NUMBER OR KEY

System 280-1 will search for and display records with specified record numbers, or it can search for key fields or character strings.

## SUPERVISORY ACCESS

The supervisor can use any keystation to perform supervisory functions. However, access to the supervisory function is password protected to prevent unauthorized personnel from using the functions.

## INTERACTIVE PROGRAM GENERATION

Included in the supervisory functions is interactive program generation. The system requests the information needed to create an entry format; the supervisor responds to the questions as they are displayed on the screen.

## EIGHT PROGRAMS PER RECORD

Each record can utilize eight user-designed entry programs.

## STANDARD JOB LIBRARY

The names of formats that are frequently used together and other specifications that are standard for a group of batches can be stored in a standard job library. Then the operator can start a job by requesting the desired job name; it is not necessary to specify individual entry programs, etc.

## OPERATOR STATISTICS

Operator statistics provide information concerning the time spent on each batch by the entry and verify operators, their gross and net keystrokes, and the number of corrections made by the operator.

## SYSTEM STATUS REPORTS

The status of each batch in the system can be displayed or printed on a serial or line printer.

## OUTPUT REFORMATTING

During output, the order of fields can be rearranged within a record or among records, spaces, zeros, and standard data can be inserted, fields can be duplicated, and records can be blocked or broken into smaller output records.

## TAPE RECORD LENGTHS

Tape records can be of variable or fixed length up to 512 characters. Records up to 2,000 characters are optional.

## STANDARD TAPE LABELS

System 280-1 can generate tape labels required by the user's mainframe computer. Header and trailer labels may contain a record count and/or block count.

## TAPE READ

As a standard feature, System 280-1 includes the ability to read a tape onto the disk for entry of additional records or for reformatting and subsequent output.

## TAPE TO PRINTER UTILITY

System 280-1 provides the ability to print data tapes without first requiring a tape-to-disk operation. Non-interruptive tape output and input, writing files or formats onto magnetic tape, printing them, or reading them back onto the disk does not interrupt data entry or verification.

## BATCH TOTALS - ZERO BALANCE

Four different batch total or zero balance functions can be specified for each batch. When the entry operator terminates the batch, the system automatically totals or balances the specified fields. Key verification is used for out-of-balance fields only until errors are corrected.

\*Specifications subject to change without notice.

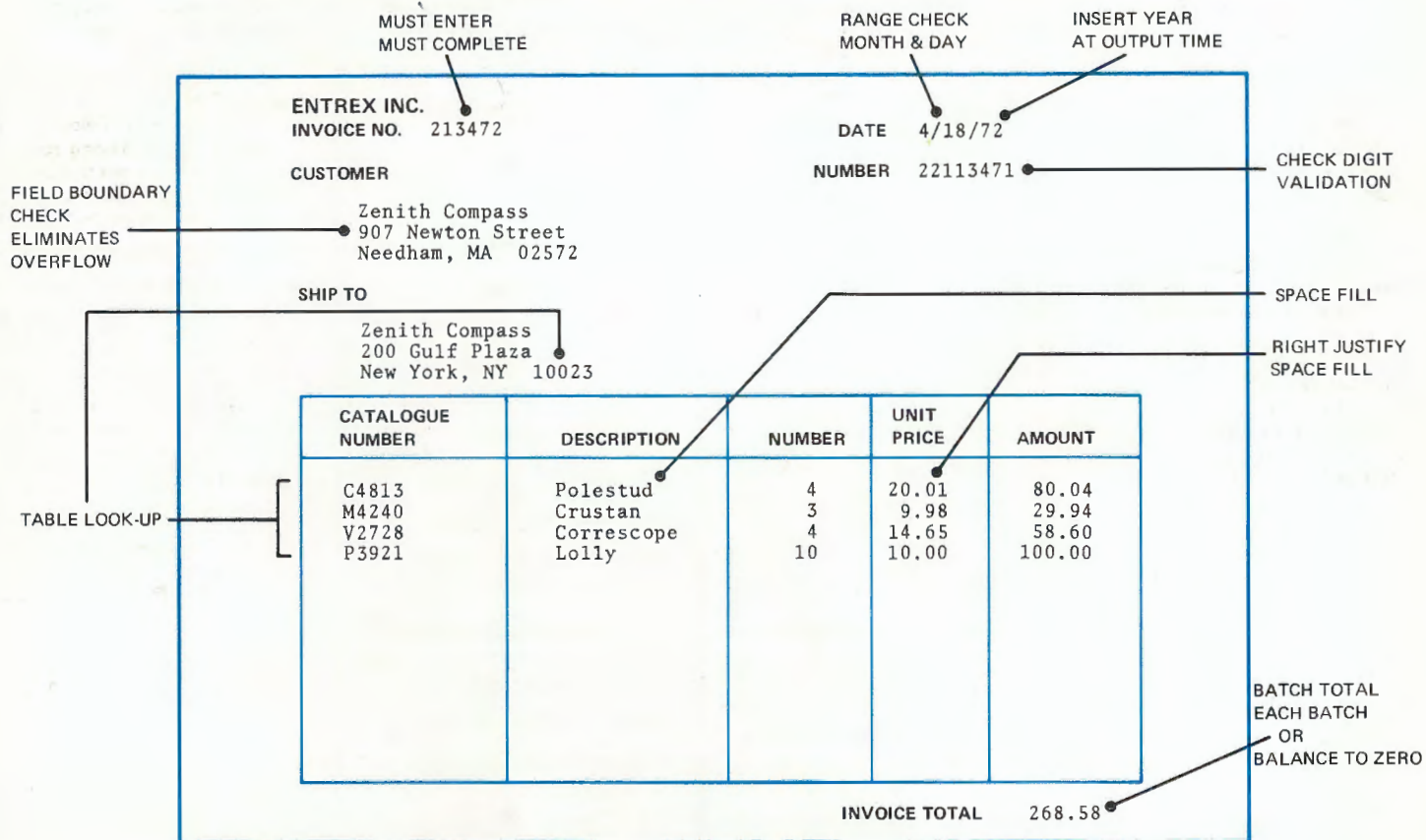


OPERATOR HELP LIST

- A START STANDARD JOB
- B START A BATCH
- C RESUME A BATCH
- D VERIFY A BATCH
- E EXAMINE A BATCH
- F UPDATE A BATCH
- G VALIDATE A BATCH
- I OPERATOR LOG-IN
- J SUPERVISOR MODE

SELECTION

ENTREX DATA/SCOPE



System 280-1 validates and edits data as it is keyed. Its software was designed for the card oriented User who wants easy training and implementation but requires application flexibility and substantial cost savings. ENTREX Account Managers can show you several areas of potential savings that you may not have thought of, and that other data entry vendors cannot effectively address. Call any of our Branch offices and arrange an appointment at your convenience.

# PERFORMANCE EVALUATION

SYSTEM FEATURE	SYSTEM 280-1	OTHER SYSTEM	SYSTEM FEATURE	SYSTEM 280-1	OTHER SYSTEM
<b>Hardware</b>			<b>Input Checks</b>		
Maximum keystations	12	_____	Alpha Only	Yes	_____
Typewriter keyboard	Yes	_____	Numeric Only	Yes	_____
Keypunch keyboard	Yes	_____	Must Enter	Yes	_____
Characters/Display	360	_____	Must Complete	Yes	_____
Lines/Screen	7	_____	Boundary Check	Yes	_____
Disk Capacity	1.8M bytes	_____	Range Check	Yes	_____
9 track 800 bpi tape drive	Yes	_____	• Inclusive/Exclusive	Yes	_____
9 track 1600 bpi tape drive	Yes	_____	• Checks Per Format	Unlimited	_____
Tape drive transfer rate	25 ips	_____	Value Tables	Yes	_____
Printers			• Inclusive/Exclusive	Yes	_____
• 165 characters/second	Optional	_____	• Ascending/Descending Order	Yes	_____
• 300 line/minute	Optional	_____	• Random Order	Yes	_____
• 600 line/minute	Optional	_____	• Number of Tables	7	_____
<b>Operator Aids</b>			• Characters Per Table	Unlimited	_____
HELP Lists	Yes	_____	Check Digits	Yes	_____
Cursor Left/Right	Yes	_____	• Number of Formulas	2	_____
Cursor Left/Right By Field	Yes	_____	• Validate/Generate	Yes	_____
Cursor Left/Right By Record	Yes	_____	• Multifield	Yes	_____
Insert a Record (Entry and Verify)	Yes	_____	• Alpha or Numeric Data	Yes	_____
Delete a Record (Entry and Verify)	Yes	_____	• Entry or Verify Mode	Yes	_____
Correct a Character	Yes	_____	Ascendency Check	Yes	_____
Correct a Field/Record	Yes	_____	Batch Balance	Yes	_____
Program Select	Yes	_____	<b>Verification</b>		
Location Return	Yes	_____	Key/Scan Verify	Yes	_____
Tab to Data	Yes	_____	Re-Verify	Yes	_____
Inhibit/Redisplay Tags	Yes	_____	Release Verify	Yes	_____
Error Flag Insertion	Yes	_____	Conditional Verification	Yes	_____
<b>Keystroke Reduction (Input)</b>			<b>Operator Modes</b>		
Auto Dup/Skip Data	Yes	_____	Enter, Verify, Examine	Yes	_____
Auto Emit/Increment Data	Yes	_____	<b>Operator Commands</b>		
Right/Left Zero Justify	Yes	_____	Start Job/Batch	Yes	_____
Right/Left Space Justify	Yes	_____	Resume Batch	Yes	_____
Zero/Space Fill	Yes	_____	Interrupt/Terminate Batch	Yes	_____
			Search For Field/Record	Yes	_____
			Search For Character Sequence	Yes	_____
			Search For Error Flag	Yes	_____
			Bi-Directional Searches	Yes	_____

# PERFORMANCE EVALUATION

SYSTEM FEATURE	SYSTEM 280-1	OTHER SYSTEM	SYSTEM FEATURE	SYSTEM 280-1	OTHER SYSTEM
<b>Program Specifications</b>			<b>Utility Operations (Supervisor) (Cont.)</b>		
Characters Per Field	99	_____	Write Header/Trailer Labels	Yes	_____
Input Record Length (Characters)	280	_____	Backspace One Tape Record	Yes	_____
Program Levels per job	8	_____	Seek Tape Mark	Yes	_____
Output Record Length		_____	Search Tape For Sequence	Yes	_____
• Standard (Max.)	512	_____	<b>System Management (Supervisor)</b>		
• Optional (Max.)	2000	_____	Operator Statistics		
Blocking	Yes	_____	• Display	Yes	_____
• Fixed/Variable Length Records	Yes	_____	• Create	Yes	_____
• Padding Characters	Yes	_____	• Initialize	Yes	_____
<b>System Security</b>			• Delete	Yes	_____
Password Required to Enter Supervisor Mode	Yes	_____	• Accumulate	Yes	_____
Supervisor Terminal	Any	_____	• Write	Yes	_____
User Specified Password	Yes	_____	System Functions		
<b>Data Management (Supervisor)</b>			• Enter Julian/Calender Date	Yes	_____
Display Batch Status	Yes	_____	• Display System/Disk Status	Yes	_____
Display Batch Log	Yes	_____	• Specify Numeric Only Exceptions	Yes	_____
Delete Batch	Yes	_____	• Execute System Save	Yes	_____
Assign/Unassign Value Tables	Yes	_____	• Specify Code Set	Yes	_____
Batch Protection	Yes	_____	<b>Libraries</b>		
Write Standard Job/Batch	Yes	_____	Standard Job Library	Yes	_____
Write Batch Status/Batch Log	Yes	_____	Input Format Library	Yes	_____
Read Standard Job/Batch	Yes	_____	Output Program Library	Yes	_____
Append To Batch	Yes	_____	<b>Library Maintenance</b>		
Read With Standard Job Header	Yes	_____	Write Formats with keying	Yes	_____
Asterisk Processor	Yes	_____	Read Formats with keying	Yes	_____
AT Processor	Yes	_____	Format Generation with keying	Yes	_____
<b>Utility Operations (Supervisor)</b>			<b>Output</b>		
Write Tape Mark	Yes	_____	Without Reformatting	Yes	_____
Write Tape Mark and Rewind	Yes	_____	With Reformatting	Yes	_____
Rewind Tape	Yes	_____	Reformat/Generate To Media	Yes	_____

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