From Computer: Atlas

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 1 2) Item Name: Circuit Board
(Common or Technical)
Date: 2/14/75
Present Location: G. Bell

---

3) Donor/Source: G. Bell (U. of Manchester) Rc'd June, 1974
Professor Sumner

Physical Description,
Overall Dimension: (Sketch) 5" x 8" x 1/4 thick

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name Circuit Board

b) Name of Computer (or system): Atlas I
Use of Computer:

Original Designer or Manufacturer: Atlas prototype - designed by U. Manchester, Atlas I & II mfd. by Ferranti Corp.

Government Agency:
Year of Origin: 1959 proto 1963
Generation: Late first or second
Country of Origin: U.K.
Author: Year:

---

5) References for Above:

1. Person G.B. Correspondence
2. Book B&N p. 274
3. Company
4. See Also:

---

6) Other Historical Information: The Atlas is one of the most important of the early machines. The prototype was originally designed and constructed at Manchester University. The Atlas 1 and Atlas 2 were produced by Ferranti Corp. (prior to becoming part of I.C.T.). Atlas 1 is the most interesting; it incorporates most of the features of the Atlas prototype. The Lincoln Laboratory TX-2 influenced some Atlas

(over)

features. Atlas was about the earliest computer to be designed with a software operating system and the idea of user machines in mind.

From Computer: Atlas

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 2 2) Item Name: Digits (Common or Technical)
Date: 2/14/75
Present Location: G. Bell

---

3) Donor/Source: G. Bell (U. of Manchester) Rc'd June, 1974
Professor Sumner

Physical Description, Very small plug-in
Overall Dimension: (Sketch) 1/4" x 1"

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system): Atlas prototype or Atlas I (?)
Use of Computer:

Original Designer or Manufacturer: U. of Manchester (prototype)
Ferranti Corp.

Government Agency:
Year of Origin: 1959 - 1963
Generation: Late first - second
Country of Origin: U.K.
Author: Year:

---

5) References for Above:

1. Person G.B. Correspondence
2. Book B&N
3. Company
4. See Also:

---

6) Other Historical Information: The Atlas is one of the most important of the early machines. The prototype was originally designed and constructed at Manchester Universtty. The Atlas 1 and Atlas 2 were produced by Ferranti Corp. (Prior to becoming part of I.C.T.). Atlas 1 is the most interesting; it incorporates most of the features of the

(over)

Atlas prototype. The Lincoln Laboratory TX-2 influenced some Atlas features. Atlas was about the earliest computer to be designed with a software operating system and the idea of user machines in mind.

From Computer: Deuce

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 3 2) Item Name: Mercury Delay Line
Date: 2/18/75 (Common or Technical)
Present Location: G. Bell

---

3) Donor/Source: G. Bell (English Electric Co., Ltd.)

Physical Description, Black Box
Overall Dimension: (Sketch) 5" x 2 1/2" x 6" long with wires to a metal tube.

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name 32 bit mercury delay line

b) Name of Computer (or system): Deuce
Use of Computer: Commercial

Original Designer or Manufacturer:
National Physics Lab -- English Electric Co.
Government Agency:
Year of Origin: ACE - 1950 - Deuce 1953-54
Generation: First
Country of Origin: U.K.
Author: Year:
(Alan M. Turing credited with basic design of ACE)

---

5) References for Above:

1. Person Professor Murray Allen, U. New South Wales
2. Book B&N p. 191, 193
3. Company
4. See Also: G.B. correspondence w/ circuit designs for equipment rec'd

---

6) Other Historical Information: Deuce is "second A.C.E.". (Automatic Computing Engine) mfd. by English Electric Co. as a commerical version of ACE.

From Computer: Deuce

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 4 2) Item Name: Arithmetic Logic Element
Date: 2/17/75 (Common or Technical)
Present Location: G. Bell

---

3) Donor/Source: G. Bell (National Physics Lab.)

Physical Description, Large plug-in unit, with transistors &
Overall Dimension: (Sketch) tubes, (possibly a Williams tube)

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name One digit of arithmetic element (?)

b) Name of Computer (or system):
Use of Computer: Commercial

Original Designer or Manufacturer:
National Physics Lab - English Electric Co.
Government Agency:
Year of Origin: ACE 1950 - Deuce 1953-54
Generation: First Second
Country of Origin: U.K.
Author: Year:

---

5) References for Above:

1. Person
2. Book B&N
3. Company
4. See Also:

---

6) Other Historical Information: Deuce is "second ACE" (Automatic Computing Engine) mfd. by English Electric Co. as a commercial version of ACE.

(over)

From Computer: MARK I

U.K.

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 5 2) Item Name: Valve/Tube
(Common or Technical)

Date: 2/18/75

Present Location: G. Bell

---

3) Donor/Source: G. Bell (Manchester University, U.K.)

Physical Description, Small "can"
Overall Dimension: (Sketch) 1 1/4" diameter by 3 inches.

How Used, Function, or Purpose:
(Need)

---

4) Full Identification of Item:

a) Name Valve/Tube

b) Name of Computer (or system):
Use of Computer: (Need)

Original Designer or Manufacturer: Manchester University

Government Agency:
Year of Origin: 1946-47
Generation: First, early
Country of Origin: U.K.
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information: (Need)

(over)

From Computer: MARK (Harvard)

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 6 2) Item Name: Unit or Rack
Date: 2/18/75 (Need) (Common or Technical)
Present Location: G. Bell

---

3) Donor/Source: G. Bell - via Trocchi & Harvard

Physical Description, Overall Dimension: (Sketch) Rack with handle - tubes on top
Large unit, plug in
4 Banks of components running lengthwise. 5 x 5 square x 30"

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name
(Need)
b) Name of Computer (or system): MARK (I, II, III, IV)
Use of Computer: Military

Original Designer or Manufacturer: Aiken, Harvard

Government Agency: U.S. Navy/Air Force/Bureau of Ordnance
Year of Origin: 1944
Generation: Early first, or (even prior electro-mechanical)
Country of Origin: U.S.
Author: Year:
Babbage - Aiken in design time line, about 100 years- 1834-to 1944.

---

5) References for Above:

1. Person
2. Book Goldstine p. 114, & Randall
3. Company
4. See Also:

---

6) Other Historical Information: MARK series produced at Harvard began in 1944, need more information to establish time line on this item.

(over)

From Computer: W.E.

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 7
Date: 12/14/75
Present Location: G. Bell

2) Item Name: Hybrid Circuit
(Common or Technical)

---

3) Donor/Source: G. Bell (Western Electric)

Physical Description, Overall Dimension: (Sketch) Printed Circuit
1 1/4" x 1 3/4" x 1/16" thick

How Used, Function, or Purpose: Circuitry used in Communications

---

4) Full Identification of Item:

a) Name Hybrid Circuit

b) Name of Computer (or system):
Use of Computer: (non-computer use?)

Original Designer or Manufacturer: Western Electric Company

Government Agency:
Year of Origin: (need)
Generation:
Country of Origin: U.S.
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

Circuits 7, 8 and 9 should be viewed through a microscope to be effective display. Detail is "gold lace."

---

6) Other Historical Information: Need

(over)

From Computer: W.E.

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 8 & 9 2) Item Name: Hybrid Circuits
(Common or Technical)
Date: 2/14/75
Present Location: G. Bell

---

3) Donor/Source: G. Bell (Western Electric)

Physical Description, Printed Circuit on thin film
Overall Dimension: (Sketch) 3/4" x 1 1/2" x 1/16"; same mounted

How Used, Function, or Purpose: Used in Communications Equipment

---

4) Full Identification of Item:

a) Name Hybrid Circuit

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer: Western Electric

Government Agency:
Year of Origin: Need
Generation:
Country of Origin: U.S.
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information: Need

(over)

From Computer: UNIVAC

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 10
Date: 2/14/75
Present Location: G. Bell

2) Item Name: Amplifier Driver
(Common or Technical)

---

3) Donor/Source: G. Bell (Unknown)

Physical Description, Overall Dimension: (Sketch)
Metal Plug in-unit w/handle & plug ins "Cow Bell"
7 1/4" w x 7" high x 2" thick

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system): UNIVAC (need more details)
Use of Computer: Bureau of Census, March, 1951

Original Designer or Manufacturer: Eckert - Mauchly Computer Corp.
Eckert & Mauchly
(Remington Rand 1950)
(Sperry Rand 1955)

Government Agency:
Year of Origin: 1947 - 51
Generation: Second
Country of Origin: U.S.
Author: Year:

---

5) References for Above: UNIVAC = (Universal Automatic Computer)

1. Person
2. Book Goldstine, B&N
3. Company
4. See Also:

---

6) Other Historical Information: UNIVAC II, 1955 - Magnetic Core Memory

(over)

From Computer: WHIRLWIND I

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 11
Date: 2/18/75
Present Location: G. Bell

2) Item Name: Accumulator
(Common or Technical)

---

3) Donor/Source: G. Bell - Lincoln Lab - (Wolfe)

Physical Description,
Overall Dimension: (Sketch) 27" x 27" x 8" square with plug in and handles.

How Used, Function, or Purpose: Fitted into floor to ceiling rack.

---

4) Full Identification of Item:

a) Name Accumulator for digits 1-14

b) Name of Computer (or system): WWJ WHIRLWIND I
Use of Computer: Military, then research

Original Designer or Manufacturer: M.I.T.

Government Agency: Office Naval Research & Inventions
Year of Origin: 1944 - 1953
Generation: First
Country of Origin: U.S.
Author: Year:

---

5) References for Above: WWI WHIRLWIND I

1. Person K. Olsen, D. Best, etc.
2. Book B&N: Goldstine, Tech. Reports from L. Lab.
3. Company
4. See Also: Slide collection, b&w photos, color photos, full documentation & Tech. Reports.

---

6) Other Historical Information: 1st 16 bit computer to become "grandfather" of 16 bit minicomputer.

(over)

From Computer: IBM

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 12 & 13
Date: 2/14/75
Present Location: G. Bell

2) Item Name: Tubes
(Common or Technical)

---

3) Donor/Source: G. Bell

Physical Description,
Overall Dimension: (Sketch) Small frame 1 1/2 diameter, with tubes enclosed.

How Used, Function, or Purpose:
(Need)

---

4) Full Identification of Item:

a) Name Tubes

b) Name of Computer (or system): IBM 650
Use of Computer: In Universities and businesses

Original Designer or Manufacturer:

Government Agency:
Year of Origin: 1954-55
Generation: Late first
Country of Origin:
Author: Year:

---

5) References for Above: IBM - International Business Machines

1. Person
2. Book Goldstine 330, B&N
3. Company
4. See Also:

---

6) Other Historical Information: Magnetic driven machine, magnetic core memory, magnetic tapes, - for first time a large group of users had a profound effect on programming & programmers. (Fast Machine)

(over)

From Computer: IBM (7090)

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 14 &15
Date: 2/14/75
Present Location: G. Bell

2) Item Name: Circuit Boards
(Common or Technical)

---

3) Donor/Source: G. Bell Not Known

Physical Description, Overall Dimension: (Sketch) 2 Circuit board each 2 1/2 x 4 1/2

How Used, Function, or Purpose:
Need

---

4) Full Identification of Item:

a) Name Circuit Boards

b) Name of Computer (or system): IBM 7090
Use of Computer:
(Need)

Original Designer or Manufacturer:

Government Agency:
Year of Origin: 1960
Generation: Early Second
Country of Origin:
Author: Year:

---

5) References for Above: IBM International Business Machines

1. Person
2. Book GB - Goldstine
3. Company
4. See Also:

---

6) Other Historical Information:

Need -

From Computer: ILLIAC

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 16 & 17
Date: 2/20/75
Present Location:

2) Item Name: Williams Storage Tube
(Common or Technical)

---

3) Donor/Source: G. Bell, Illinois University

Physical Description,
Overall Dimension: (Sketch)

How Used, Function, or Purpose: Storage Device for Memory

---

4) Full Identification of Item:

a) Name Williams Storage Tube

b) Name of Computer (or system): ILLIAC I
Use of Computer:

Original Designer: Frederic Callard Williams, F.R.S.

Government Agency:
Year of Origin: 1946 - (Notebook entries 1948 for U.S. patent)
Generation:
Country of Origin: U.K.
Author: Year:

---

5) References for Above:

1. Person
2. Book B&N Goldstine
3. Company
4. See Also:

---

6) Other Historical Information: This tube was considered the best device until the invention of the magnetic core. Tubes now considered "great curiosities" manufactured in U.S. by duMont & RCA - first used in U.S. "In a true random - access...or parallel memory... in 1951... at the University of Illinois Institute of Advanced Science". Pomerene from IAS, Princeton & Meagher worked at same time on problems connected with Tube.

(over)

From Computer: ILLIAC I

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 18
Date: 2/20/75
Present Location: G. Bell

2) Item Name: "Technical Report"
(Common or Technical)
Single Page diagram - A Guide to ILLIAC Programming.

---

3) Donor/Source: G. Bell; Illinois University

Physical Description,
Overall Dimension: (Sketch)

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name: Technical Progress Report Feb. 1, 1954 to Feb. 28, 1954, University of Illinois Graduate College, Digital Computer Laboratory
b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer: University of Illinois

Government Agency:
Year of Origin: 1952
Generation: First
Country of Origin: U.S.
Author: Year:

---

5) References for Above:

1. Person Clifford E. Carter, Asst. Director Engr., University of Illinois
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:
Also included in this package of data:

1. Single page diagram
2. Financial statement
3. A Guide to ILLIAC Programming.

From Computer: ILLIAC I

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 18-A
Date: 2/18/75
Present Location:

2) Item Name: PHOTO COLLECTION
(Common or Technical)
(7 sets to be catalogued as a series)

---

3) Donor/Source: G. Bell - University of Illinois

Physical Description, Overall Dimension: (Sketch)

Early photos of Illinois

16 Photos

How Used, Function, or Purpose:

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4) Full Identification of Item:

a) Name: See listing for each photo attached

b) Name of Computer (or system): ILLIAC I
Use of Computer:

Original Designer or Manufacturer: Illinois University

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person Clifford E. Carter, Asst Director, Engr. University of Illinois
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: ILLIAC I

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19
Date: 2/20/75
Present Location: G. Bell

2) Item Name: Tube Chassis
(Common or Technical)

---

3) Donor/Source: G. Bell Illinois University

Physical Description,
Overall Dimension: (Sketch) 12" wide 4" h. 20" long

How Used, Function, or Purpose: One section holds Williams Tube

---

4) Full Identification of Item:

a) Name: Tube Chassis

b) Name of Computer (or system): ILLIAC I
Use of Computer:

Original Designer or Manufacturer: University of Illinois

Government Agency:
Year of Origin: 1953
Generation: First
Country of Origin: U.S.
Author: Year:

---

5) References for Above:

1. Person Clifford E. Carter, Asst. Director Engr., University of Illinois
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:
Also included in this package of data:

1. Single page diagram
2. Financial statement
3. A Guide to ILLIAC Programming

From Computer: ILLIAC II

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.1
Date: 3/31/75
Present Location: G. Bell

2) Item Name: Sample Core Plane
(Common or Technical)

---

3) Donor/Source: Clifford E. Carter, U. of Illinois at Urbana-Champaign

Physical Description,
Overall Dimension: (Sketch)

flat, 9 1/4" X 9 1/2"

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: ILLIAC II

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.2
Date: 3/31/75
Present Location: G. Bell

2) Item Name: ILLIAC II Programming Manual--3/1963
(Common or Technical)

---

3) Donor/Source: Clifford E. Carter, U. of Illinois at Urbana-Champaign

Physical Description,
Overall Dimension: (Sketch)

8 1/2 X 11 manual (3/4" thick)

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: ILLIAC II

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.3
Date: 3/31/75
Present Location: G. Bell

2) Item Name: Chassis from Interplay (block multiplexor)
(Common or Technical)

---

3) Donor/Source: Cliff Carter, Assist. Dir. of Eng., U. of Illinois at Urbana-Champaign

Physical Description,
Overall Dimension: (Sketch)

How Used, Function, or Purpose:

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4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

(over)

From Computer: ILLIAC III

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.30
Date: 4/16/75
Present Location: G. Bell

2) Item Name: STALACTITE BOARD
(Common or Technical)

---

3) Donor/Source: Clifford E. Carter, U. of Illinois at Urbana-Champaign

Physical Description, 2 flat boards 4 3/4" X 5 1/2"
Overall Dimension: (Sketch)

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: _____

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.31
Date: 4/16/75
Present Location: G. Bell

2) Item Name: Circuit board
(Common or Technical)

---

3) Donor/Source: Clifford E. Carter, U. of Illinois at Urbana-Champaign

Physical Description, Overall Dimension: (Sketch) Flat board 4 3/4" X 5 1/2"

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: ILLIAC III

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.32
Date: 4/16/75
Present Location: G. Bell

2) Item Name: Complete set of drawings for Stalactite
(Common or Technical)

---

3) Donor/Source: Clifford Carter, U. of Illinois at Urbana-Champaign

Physical Description, Overall Dimension: (Sketch) 18 legal-sized sheets

How Used, Function, or Purpose:

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4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: _____

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.33.1-19.33.10 2) Item Name: _____
Date: 4/16/75 (Common or Technical)
Present Location: G. Bell

---

3) Donor/Source: Clifford Carter, U. Of Illinois at Urbana-Champaign

Physical Description, 11 manuals listed separately on reverse side.
Overall Dimension: (Sketch)

How Used, Function, or Purpose:

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4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

19.33.1 Report No. 308, PARAMETRIC DESCRIPTION OF A SCAN-DISPLAY SYSTEM, by: Lawrence Dunn, Lakshmi Goyal, Bruce McCromick, Val Tareski, Feb. 5, 1969, Dept. of Computer Science, U. of Illinois at Urbana-Champaign (2 copies)

19.33.2 Report No. 148, The Illinois Pattern Recognition Computer (ILLIAC III), By Bruce McCormick, Aug. 20, 1963, presented 18th Annual ACM National Conference, Denver

19.33.3 Report No. 338, The Pattern Articulation Unit of ILLIAC III IMPLEMENTATION OF THE HOMOGENEOUS INSTRUCTION "BOOLE", by Richard Borovec, June 20, 1969, U. of Illinois, Urbana

19.33.4 Report No. 400, STANDARDIZATION OF CONTROL POINT REALIZATION, by Ronald Martin, May 21, 1970, U. of Illinois, Urbana

19.33.5 Report No. 406, EXPERIMENTS WITH AN IMAGE PROCESSING COMPUTER, by Bruce McCormick, June 19, 1970, U. of Illinois at Urbana

19.33.6 SHOW AND TELL, AN INTERACTIVE PROGRAMMING SYSTEM FOR IMAGE PROCESSING SYSTEM SPECIFICATIONS, Report No. 429, by John Read, Feb. 18, 1971, U. of Illinois at Urbana

19.33.7 Report No. 433, ILLIAC III REFERENCE MANUAL, VOLUME I: The Computer System, edited by B. McCormick and B. Nordmann, Jr., February 17, 1971, U. of Illinois at Urbana

19.33.8 Report No. 434, ILLIAC III REFERENCE MANUAL, VOLUME II: Instruction Repertoire, edited by B. McCormick and B. Nordmann, Jr., Feb. 26, 1971, U. of Illinois at Urbana

19.33.9 Report No. 472, ILLIAC III REFERENCE MANUAL, VOLUME IV: Supervisor Organization, edited by B. McCormick and B. Nordmann, Jr., Aug. 12, 1971, U. of Illinois at Urbana

19.33.10 Report No. 473, ILLIAC III REFERENCE MANUAL, VOLUME III: Input/Output, editred by B. McCormick and B. Nordmann, Jr., Aug. 13, 1971, U. of Illinois at Urbana

From Computer: ILLIAC

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.34
Date: 4/16/75
Present Location: G. Bell

2) Item Name: _____
(Common or Technical)

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3) Donor/Source: Clifford Carter, U. of Illinois at Urbana-Champaign

Physical Description,
Overall Dimension: (Sketch) 8" X 8" photograph

How Used, Function, or Purpose:

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4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: ILLIAC

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 19.35
Date: 4/16/75
Present Location: G. Bell

2) Item Name: _____
(Common or Technical)

---

3) Donor/Source: Clifford Carter, U. of Illinois at Urbana-Champaign

Physical Description, Overall Dimension: (Sketch) 8" x 8" photograph

How Used, Function, or Purpose:

---

4) Full Identification of Item:

a) Name

b) Name of Computer (or system):
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

(over)

From Computer: DEC Modules

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 20
Date: 2/14/75
Present Location: G. Bell

2) Item Name: Display, Hybrid Circuit
(Common or Technical)

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3) Donor/Source: G. Bell, DEC

Physical Description, Overall Dimension: (Sketch) Plastic display case
3 1/2 w x 5 1/4 x 3/4 thick

How Used, Function, or Purpose: Hybrid Circuits

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4) Full Identification of Item:

a) Name: Display of "integrated circuit mfging steps"

b) Name of Computer (or system): DEC MODULE
Use of Computer:

Original Designer or Manufacturer: DEC

Government Agency:
Year of Origin: To be determined
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person Tom Stockebrand - Dick Best
2. Book
3. Company
4. See Also:

---

6) Other Historical Information:

From Computer: PDP's

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 21 2) Item Name: System Module (Common or Technical)
Date:
Present Location:

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3) Donor/Source: G. Bell, DEC

Physical Description,
Overall Dimension: (Sketch) 4 1/2 x 7 x 1/2" Thick

How Used, Function, or Purpose: As inverter (5 mounted on one board) should be mounted in systems Modules mounting panel #1901 to be effective in display.

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4) Full Identification of Item:

a) Name: Systems Module

b) Name of Computer (or system): PDP 1 through PDP 5
Use of Computer:

Original Designer or Manufacturer:

Government Agency:
Year of Origin: 1958
Generation: Early second
Country of Origin: U.S.
Author: Year:

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5) References for Above:

1. Person D. Best
2. Book A-705-50m 362, Digital Modules
3. Company
4. See Also:

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6) Other Historical Information:

From Computer: PDP

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 22
Date: 2/18/75
Present Location: G. Bell

2) Item Name: Print Head & Flip Chip
(Common or Technical)
Print Head Connector Board.

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3) Donor/Source: G. Bell, DEC

Physical Description, Overall Dimension: (Sketch) 2 units with 5' long flexible 2" tape
Print Head - 6 x 6 with long tube inbetween
Flip Chip - 2 1/2" x 4 1/2" x 1/2"

How Used, Function, or Purpose:

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4) Full Identification of Item:

a) Name: Print Head & Flip Chip

b) Name of Computer (or system): PDP (to be determined)
Use of Computer:

Original Designer or Manufacturer: DEC

Government Agency:
Year of Origin:
Generation:
Country of Origin:
Author: Year:

---

5) References for Above:

1. Person Russ Doanne - Tom Stockebrand
2. Book
3. Company
4. See Also:

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6) Other Historical Information:

From Computer: PDP-6

IDENTIFICATION OF DEC MUSEUM COLLECTION

Antique Computer Parts, Reports, Records & Archives

1) Item #: 23 2) Item Name: Arithmetic Register (Common or Technical)
Date: 2/18/75
Present Location: G. Bell

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3) Donor/Source: G. Bell, DEC

Physical Description, Overall Dimension: (Sketch) 9 1/2" x 11"x 1/2" circuit board with aluminum band around edge

How Used, Function, or Purpose: Should be shown in systems mounting panel for display.

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4) Full Identification of Item:

a) Name: Arithmetic Register

b) Name of Computer (or system): PDP-6
Use of Computer:

Original Designer or Manufacturer: DEC

Government Agency:
Year of Origin: June, 1963
Generation: Mid second generation
Country of Origin: U.S.
Author: Year:

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5) References for Above:

1. Person Tom Stockebrand
2. Book
3. Company
4. See Also:

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6) Other Historical Information:
This element includes several functions all packaged together:

1. Anthetic register (accumulator)
2. Memory buffer register