



CALS TEST NETWORK

AFCTN Test Report 93-062

AFCTB-ID
93-016



Technical Publication Transfer

Using:



Northrop Corporation's Data



- MIL-D-28000A (IGES)
- MIL-M-28001A (SGML)
- MIL-R-28002A (Raster)
- MIL-D-28003 (CGM)



Quick Short Test Report



19960822 125

03 March 1993

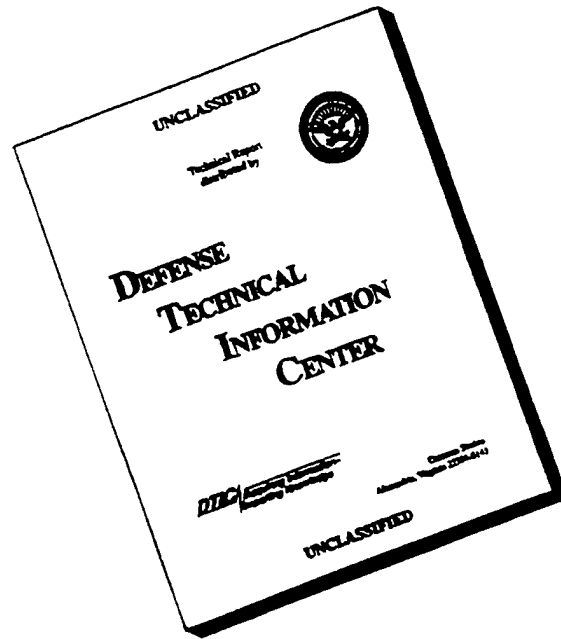
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**Technical Publication Transfer
Using:
Northrop Corporation's Data**

**MIL-D-28000A (IGES)
MIL-M-28001A (SGML)
MIL-R-28002A (Raster)
MIL-D-28003 (CGM)**

**Quick Short Test Report
3 March 1993**

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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-Cycle Support (CALs) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports. (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Northrop Corporation's interpretation and use of the CALS standards in transferring technical publication data. Northrop used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan: AFCTB 93-016

Date of Evaluation: 3 March 1993

Evaluators: George Elwood
Air Force CALS Test Bed
DET 2 HQ ESC/ENCP
Suite 300
4027 Colonel Glenn Hwy
Dayton OH 45431-1672

Data Originator: John P. Kent
Northrop Corporation
B-2 Division
L591/GK
8900 East Washington Blvd
Pico Rivera CA 90660
(310) 948-0624

Data Description: Technical Manual Test
3 Document Declaration files
3 Document Type Definitions (DTD)
8 Initial Graphics Exchange Specification (IGES) files
3 Text files
2 Raster files
7 Computer Graphics Metafile (CGM) files

Data Source System:

IGES

HARDWARE

Unknown

SOFTWARE

Unknown

Text/Standard Generalized Markup Language (SGML)

HARDWARE Unknown
SOFTWARE Unknown

Raster

HARDWARE Unknown
SOFTWARE Unknown

CGM

HARDWARE Unknown
SOFTWARE Unknown

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool v1.2.8 UNIX

Texas Instruments (TI) Tapetool v1.0.1

MIL-D-28000 (IGES)

Sun SparcStation 2

ArborText iges2draw

IGES Data Analysis (IDA) Parser/Verifier v92

IDA IGESView v3.05

Cheetah Gold 486

AUTODESK AutoCAD 386 R12

MIL-M-28001 (SGML)

Cheetah Gold 486

Datalogics ParserStation v3.36

Exoterica XGMLNormalizer v1.2e3.2

Public Domain sgmls

MIL-R-28002 (Raster)

SUN SparcStation 2

ArborText *g42tiff*

AFCTN *validg4*

AFCTN *calstb.475*

IDA *IGESView v3.0*

Island Graphics *IslandPaint v3.0*

Cheetah

Inset Systems *HiJaak v2.1*

Inset Systems *HiJaak Window v1.0*

Software Publishing Corporation

(SPC) *Harvard Graphics v3.0*

Corel Ventura Publisher

MIL-D-28003 (CGM)

SUN SparcStation 2

ArborText *cgm2draw*

Island Graphics *IslandDraw v3.0*

Cheetah Gold 486

Advance Technology Center

(ATC) *MetaVIEW R 1.12*

ATC *MetaCheck R 2.05*

SPC *Harvard Graphics v3.05*

Inset Systems *HiJaak v2.1*

Inset Systems *HiJaak v1.0 Windows*

Micrografx *Designer v3.1*

Micrografx *Charisma v2.1*

Corel Ventura Publisher

Standards

Tested:

MIL-STD-1840A

MIL-D-28000A

MIL-M-28001A

MIL-R-28002A

MIL-D-28003

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with the magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tape were enclosed in a barrier bag as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Enclosed in the box was a packing list showing all files recorded on the tape.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The tape was run through the AFCTB *Tapetool* v1.2.8 utility. No errors were encountered while evaluating the contents of the tape labels.

The tape was also evaluated using TI's version of *Tapetool*. No errors were reported from this program.

3.2.2 Declaration and Header Fields

No errors were found in the Document Declaration file or data file headers.

4. IGES Analysis

This tape contained four IGES files. These files were evaluated using IDA's *Parser and Verifier* set for CALS Class I. This software reported no errors in the files.

The AFCTB has several tools for viewing IGES files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of meeting CALS standards. All operations were performed using the default settings.

The four files were converted using ArborText's *iges2draw* utility with no reported errors. When the resulting files were imported into Island Graphics' *IslandDraw*, file Q304 displayed the right edge with nothing printing except one line. File Q305 displayed and printed two heavy lines. Files Q306 and Q307 displayed and printed without a problem.

The four files were converted using the AUTODESK's *IGES Translator 5.1* with no reported problems. The resulting files were displayed and printed using AUTODESK's *AutoCAD R12*. The images appear to be complete.

The four files were imported into IDA's *IGESView* without a reported problem. The files displayed and printed without a problem. All files appear to be complete.

The IGES files meet the CALS MIL-D-28000A specification.

5. SGML Analysis

The tape contained three DTDs and three Text files. The DTDs were the same except for the graphic references. To save time, all of the graphic references were placed in one DTD and this file was used during all operations.

The Text files on this tape were short and only called the graphics files.

The DTD was parsed using Exotercia's *XGMLNormalizer* with no reported errors. When the DTD was use to parse all three Text files the same errors were reported.

```
C:\XGML\XGMLNORM.EXE --
Error on line 1 in file i:\9316-1\d001t001:
A REQUIRED attribute is missing.
For start tag 'DOC': For REQUIRED CDATA attribute 'FOSICITE'.
```

The DTD was parsed using the Datalogics' *ParseStation* software with no reported errors. This software did use non used elements. See the Appendix for the log file. When the DTD was used to parse the Text files, the missing tag was also reported. See the Appendix for the log.

The DTD was parsed using the Public Domain *sgmls* parser. This parser reported two errors in the DTD. When the DTD and Text files were parsed together several error message were generated. The boardno errors are not errors because they were commented out of the DTD before parsing. This parser also reported the missing tag.

```
sgmls: Warning at 9316.dtd, line 451 in declaration parameter 4:
      End-tag minimization should be "O" for EMPTY element
sgmls: Warning at 9316.dtd, line 533 in declaration parameter 4:
      End-tag minimization should be "O" for EMPTY element
sgmls: SGML error at i:\9316-1\d001t001, line 1 at "":
      Required FOSICITE attribute was not specified;
      may affect processing
sgmls: SGML error at i:\9316-1\d001t001, line 5 at "":
      BOARDNO = "test1" ENTITY attribute not general entity;
      may affect processing
      Element structure: DOC BODY PARA0 FIGURE
sgmls: SGML error at i:\9316-1\d001t001, line 8 at "":
      BOARDNO = "test2" ENTITY attribute not general entity;
      may affect processing
      Element structure: DOC BODY PARA0 FIGURE
TOTALCAP 162821/200000
  ENFCAP 11552/200000
  ENTCHCAP 6821/200000
  ELEMCAP 5696/200000
  GRPCAP 59200/200000
  EXGRPCAP 448/200000
  EXNMCAP 992/200000
```

ATTCAP 44192/200000
ATTCHCAP 756/200000
AVGRPCAP 32608/200000
NOTCAP 192/200000
NOTCHCAP 364/200000

The DTD and Text files do not meet the CALS MIL-D-28001A specification.

6. Raster Analysis

The tape contained two Raster files with both Type I and Type II files. The AFCTB currently does not have the ability to evaluate Type II Raster files.

The Type I file was checked using the AFCTN *validg4* utility. No errors were reported. This file was read into the AFCTN *calstb.475* viewer and displayed. The image appear to be scanned at a slight angle.

The AFCTB has several tools for viewing Raster files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The file was imported into IDA's *IGESView* without a problem and viewed. The angle was noted.

The file was converted using Rosetta Technologies' *Prepare* and viewed using *Preview*. The angle was noted.

The file was converted using Inset Systems' *HiJaak* without a problem. The resulting file was read into Corel's *Ventura Publisher* and viewed.

The Raster file was imported and viewed using Inset Systems' *HiJaak for Windows* without a problem.

The Type I Raster file, R104, meets the CALS MIL-R-28002A specification.

7. CGM Analysis

This tape contained six CGM files. All files were evaluated using ATC's *MetaCheck* software with CALS options. The version in use is not the most current version of the software. This utility reported that all files meet the CALS MIL-D-28003 specification.

The files were evaluated using the AFCTN beta *validcgm* utility. This program reported errors in all files.

The AFCTB has several tools for viewing CGM files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of meeting CALS standards. All operations were performed using the default settings.

The files were converted using ArborText's *cgm2draw* utility. No errors were reported during this procedure. The resulting files were read into Island Graphics' *IslandDraw*. With the exception of font problems and misplaced lines, the files all displayed and printed correctly.

The files were directly imported into Island Graphics' *IslandDraw*. File C204 was missing the boxes around the restricted text. File C205 had most of the entities placed in the lower right corner. They overlaid other entities. File C209 had some text over flow.

The files were imported into SPC's *Harvard Graphics 3.05* with all files except C209 reporting errors. The errors were line style, non-CGM entities, and non-converted entities. Files C204 and C205 were the same with missing polygon sets and cell arrays. The text font was also incorrect. File C206 had missing entities. File C207 had many entities missing. Most of the lines in file C208 did not display or print. File C209 had many text over flows.

Attempts to read the files with the Micrografx *Designer* and Inset Systems' *HiJaak for Windows* did not work. This was due to software and hardware problems combined.

According to Michael Harrison of Micrografx, "Micrografx is aware of the problems associated with reading these files and is working on a solution to be implemented in a future release of our products."

The CGM files were reported as meeting the CALS MIL-D-28003 specification.

8. Conclusions and Recommendations

In summary, the tape from Northrop Corporation is correct. The tape could be read properly using the AFCTN *Tapetool* and TI version without any reported errors. The physical structure of the tape meets the CALS MIL-STD-1840A requirements.

The IGES files meet the CALS MIL-D-28000A specification.

Because of reported errors in the Text file, the SGML part of this tape does not meet the CALS MIL-M-28001A specification.

The Type I Raster file meets the CALS MIL-R-28002A specification.

The CGM files were reported as meeting the CALS MIL-D-28003 specification.

Due to minor errors in the text file, the tape submitted by Northrop Corporation does not meet the CALS MIL-STD-1840A requirements.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

Air Force CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Wed Mar 3 14:25:25 1993
MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set068

Page: 1

| File Name | File Type | Record Format/ Length | Block Length/Total | Selected/ Extracted |
|-----------|--------------------------------------|-----------------------------|-----------------------|------------------------|
| D001 | Document Declaration | D/00260 | 02048/000001 | Extracted |
| D002 | Document Declaration | D/00260 | 02048/000001 | Extracted |
| D003 | Document Declaration | D/00260 | 02048/000001 | Extracted |
| D001T001 | Text | D/00260 | 02048/000001 | Extracted |
| D001G002 | DTD | D/00260 | 02048/000034 | Extracted |
| D001H003 | Output Specification | D/00260 | 02048/000001 | Extracted |
| D001R004 | Raster | F/00128 | 02048/000016 | Extracted |
| D001R005 | Raster | F/00128 | 02048/000008 | Extracted |
| D002T001 | Text | D/00260 | 02048/000001 | Extracted |
| D002G002 | DTD | D/00260 | 02048/000034 | Extracted |
| D002H003 | Output Specification | D/00260 | 02048/000001 | Extracted |
| D002C004 | CGM | F/00080 | 00800/000004 | Extracted |
| | <<<<< PART OF LOG REMOVED HERE >>>>> | | | |
| D002C009 | CGM | F/00080 | 00800/000002 | Extracted |
| D003T001 | Text | D/00260 | 02048/000001 | Extracted |
| D003G002 | DTD | D/00260 | 02048/000034 | Extracted |
| D003H003 | Output Specification | D/00260 | 02048/000001 | Extracted |
| D003Q004 | IGES | F/00080 | 02000/000016 | Extracted |
| | <<<<< PART OF LOG REMOVED HERE >>>>> | | | |
| D003Q007 | IGES | F/00080 | 02000/000047 | Extracted |

Catalog Process terminated normally.

9.2 Tape Evaluation Log

Air Force CALS Test Network Tape Evaluation - Version 1.2; Release Number 8

Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Wed Mar 3 14:24:44 1993

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1ITDS01 CONTROLLER

4

Label Identifier: VOL1
Volume Identifier: ITDS01
Volume Accessibility:
Owner Identifier:
Label Standard Version: 4

*** ERROR (ANSI X3.27; 8.3.1.1) - Columns 12-24 are reserved
for future standardization and must be spaces.

HDR1D001 ITDS0100010001000100 93057 93057 000000 CONTROLLER

Label Identifier: HDR1
File Identifier: D001
File Set Identifier: ITDS01
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0001
Generation Version Number: 00
Creation Date: 93057
Expiration Date: 93057
File Accessibility:
Block Count: 000000
Implementation Identifier: CONTROLLER

HDR2D0204800260

00

Label Identifier: HDR2
Recording Format: D

Block Length: 02048
Record Length: 00260
Offset Length: 00

***** Tape Mark *****

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

***** Tape Mark *****

EOF1D001 ITDS0100010001000100 93057 93057 000001 CONTROLLER

Label Identifier: EOF1
File Identifier: D001
File Set Identifier: ITDS01
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0001
Generation Version Number: 00
Creation Date: 93057
Expiration Date: 93057
File Accessibility:
Block Count: 000001
Implementation Identifier: CONTROLLER

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

***** Tape Mark *****

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

***** Tape Mark *****

HDR1D003Q007 ITDS0100010024000100 93057 93057 000000 CONTROLLER

Label Identifier: HDR1
File Identifier: D003Q007
File Set Identifier: ITDS01
File Section Number: 0001

File Sequence Number: 0024
Generation Number: 0001
Generation Version Number: 00
Creation Date: 93057
Expiration Date: 93057
File Accessibility:
Block Count: 000000
Implementation Identifier: CONTROLLER

HDR2F0200000080 00

Label Identifier: HDR2
Recording Format: F
Block Length: 02000
Record Length: 00080
Offset Length: 00

***** Tape Mark *****

Actual Block Size Found = 2000 Bytes.

Number of data blocks read = 47.

***** Tape Mark *****

EOF1D003Q007 ITDS0100010024000100 93057 93057 000047 CONTROLLER

Label Identifier: EOF1
File Identifier: D003Q007
File Set Identifier: ITDS01
File Section Number: 0001
File Sequence Number: 0024
Generation Number: 0001
Generation Version Number: 00
Creation Date: 93057
Expiration Date: 93057
File Accessibility:
Block Count: 000047
Implementation Identifier: CONTROLLER

EOF2F0200000080 00

Label Identifier: EOF2
Recording Format: F
Block Length: 02000
Record Length: 00080
Offset Length: 00

***** Tape Mark *****

***** Tape Mark *****

End of Volume ITDS01

End Of Tape File Set

Deallocating /dev/rmt0...

Tape Import Process terminated with 1 error(s), 0 warning(s),
and 0 note(s).

9.3 Tape File Set Validation Log

Air Force CALS Test Network File Set Evaluation - Version 1.2; Release Number 8
Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information
MIL-R-28002 (1989) - Raster Graphics Representation In Binary
Format, Requirements For

Wed Mar 3 14:25:26 1993

MIL-STD-1840A File Set Evaluation Log

File Set: Set068

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Division, L591/GK
E. Washington Blvd., Pico Rivera, CA 90660-3765 (310) 948-0624

srcdocid: STPRO25.10

srcrelid: NONE

chglvl: ORIGINAL

dteisu: 19930126

dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (I)/ENCT, Techn
4027 Col. Glenn Highway, Dayton, OH 45431-1601

dstdocid: CALS_RAS_TEST

dstrelid: NONE

dtetrm: 19930226

dlvacc: NONE

filcnt: T1, H1, G1, R2

ttlcls: UNCLASSIFIED

doccls: UNCLASSIFIED

doctyp: JOB GUIDE

docttl: graphics test

Found file: D001T001

Extracting Text Header Records...

Evaluating Text Header Records...

srcdocid: STPRO25.10

dstdocid: CALS_RAS_TEST

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D001T001_HDR
Saving Text Data File: D001T001_TXT

Found file: D001G002
Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: STPRO25.10
dstdocid: CALS_RAS_TEST
notes: NONE

Saving DTD Header File: D001G002_HDR
Saving DTD Data File: D001G002_DTD

Found file: D001H003
Extracting Output Specification Header Records...
Evaluating Output Specification Header Records...

srcdocid: STPRO25.10
dstdocid: CALS_RAS_TEST
notes: NONE

Saving Output Specification Header File: D001H003_HDR
Saving Output Specification Data File: D001H003_OS

Found file: D001R004
Extracting Raster Header Records...
Evaluating Raster Header Records...

srcdocid: STPRO25.10
dstdocid: CALS_RAS_TEST
txtfilid: W
figid: NONE
srcgph: test1
doccls: UNCLASSIFIED
rtype: 1
rorient: 090,270
rpelcnt: 001728,002200
rdensty: 0200
notes: NONE

Saving Raster Header File: D001R004_HDR
Saving Raster Data File: D001R004_GR4

Found file: D001R005
Extracting Raster Header Records...

Evaluating Raster Header Records...

srcdocid: STPRO25.10
dstdocid: CALS_RAS_TEST
txtfilid: W
figid: NONE
srcgph: test2
doccls: UNCLASSIFIED
rtype: 2
rorient: 000,270
rpelcnt: 002560,003584
rdensty: 0300
notes: NONE

Saving Raster Header File: D001R005_HDR
Saving Raster Data File: D001R005_GR4

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.
Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.
File Count verification complete.

No errors were encountered in Document D001.

Found file: D002

Extracting Document Declaration Header Records...
Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Division, L591/GK
E. Washington Blvd., Pico Rivera, CA 90660-3765 (310) 948-0624
srcdocid: STPRO25.6
srcrelid: NONE
chglvl: ORIGINAL
dteis: 19930126
dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (I)/ENCT, Techn
4027 Col. Glenn Highway, Dayton, OH 45431-1601
dstdocid: CALS_CGM_TEST
dstrelid: NONE
dtetm: 19930226
dlvacc: NONE
filcnt: T1, H1, G1, C6
ttlcls: UNCLASSIFIED
doccls: UNCLASSIFIED
doctyp: JOB GUIDE

docttl: graphics test

Found file: D002T001
Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: STPRO25.6
dstdocid: CALS_CGM_TEST
txtfilid: W
doccls: UNCLASSIFIED
notes: NONE

Saving Text Header File: D002T001_HDR
Saving Text Data File: D002T001_TXT

Found file: D002G002
Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: STPRO25.6
dstdocid: CALS_CGM_TEST
notes: NONE

Saving DTD Header File: D002G002_HDR
Saving DTD Data File: D002G002_DTD

Found file: D002H003
Extracting Output Specification Header Records...
Evaluating Output Specification Header Records...

srcdocid: STPRO25.6
dstdocid: CALS_CGM_TEST
notes: NONE

Saving Output Specification Header File: D002H003_HDR
Saving Output Specification Data File: D002H003_OS

Found file: D002C004
Extracting CGM Header Records...
Evaluating CGM Header Records...

srcdocid: STPRO25.6
dstdocid: CALS_CGM_TEST
txtfilid: W
figid: NONE
srcgph: allint.cgm

doccls: UNCLASSIFIED
notes: NONE

Saving CGM Header File: D002C004_HDR
Saving CGM Data File: D002C004_CGM

<<<< PART OF LOG FILE REMOVED HERE >>>>

Found file: D002C009
Extracting CGM Header Records...
Evaluating CGM Header Records...

srcdocid: STPRO25.6
dstdocid: CALS_CGM_TEST
txtfilid: W
figid: NONE
srcgph: text.cgm
doccls: UNCLASSIFIED
notes: NONE

Saving CGM Header File: D002C009_HDR
Saving CGM Data File: D002C009_CGM

Evaluating numbering scheme...
No errors were encountered during numbering scheme evaluation.
Numbering scheme evaluation complete.

Checking file count...
No errors were encountered during file count verification.
File Count verification complete.

No errors were encountered in Document D002.

Found file: D003
Extracting Document Declaration Header Records...
Evaluating Document Declaration Header Records...

srcsys: John P. Kent, ITDS Chief Engineer, Northrop Corporation, B-2 Division, L591/GK
E. Washington Blvd., Pico Rivera, CA 90660-3765 (310) 948-0624
srcdocid: STPRO25.8
screlid: NONE
chglvl: ORIGINAL
dteisu: 19930126
dstsys: Jeff Fisher, Integration Manager, USAF CALS Test Bed, HQ AFMC (I)/ENCT, Techn
4027 Col. Glenn Highway, Dayton, OH 45431-1601
dstdocid: CALS_IGES_TEST
dstrelid: NONE

dtetrm: 19930226
dlvacc: NONE
filcnt: T1, H1, G1, Q4
ttlcls: UNCLASSIFIED
doccls: UNCLASSIFIED
doctyp: JOB GUIDE
docttl: graphics test

Found file: D003T001
Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: STPRO25.8
dstdocid: CALS_IGES_TEST
txtfilid: W
doccls: UNCLASSIFIED
notes: NONE

Saving Text Header File: D003T001_HDR
Saving Text Data File: D003T001_TXT

Found file: D003G002
Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: STPRO25.8
dstdocid: CALS_IGES_TEST
notes: NONE

Saving DTD Header File: D003G002_HDR
Saving DTD Data File: D003G002_DTD

Found file: D003H003
Extracting Output Specification Header Records...
Evaluating Output Specification Header Records...

srcdocid: STPRO25.8
dstdocid: CALS_IGES_TEST
notes: NONE

Saving Output Specification Header File: D003H003_HDR
Saving Output Specification Data File: D003H003_OS

Found file: D003Q004
Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: STPRO25.8
dstdocid: CALS_IGES_TEST
txtfilid: W
figid: NONE
srcgph: apple2d.igs
doccls: UNCLASSIFIED
notes: NONE

Saving IGES Header File: D003Q004_HDR
Saving IGES Data File: D003Q004_IGS

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

Found file: D003Q007
Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: STPRO25.8
dstdocid: CALS_IGES_TEST
txtfilid: W
figid: NONE
srcgph: lgtable.igs
doccls: UNCLASSIFIED
notes: NONE

Saving IGES Header File: D003Q007_HDR
Saving IGES Data File: D003Q007_IGS

Evaluating numbering scheme...
No errors were encountered during numbering scheme evaluation.
Numbering scheme evaluation complete.

Checking file count...
No errors were encountered during file count verification.
File Count verification complete.

No errors were encountered in Document D003.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

10. Appendix B - Detailed IGES Analysis

10.1 File Q204

10.1.1 Parser/Verifier Log

```
*** IGES DATA FILE ANALYSIS ***
***      MARCH 1992      ***
***  IGES Data Analysis  ***
***      (708) 449-3430  ***
```

Input file is /novell/9316-1/q304.igs

Checking conformance to CALS Class I (MIL-D-28000A 2/10/92)

Today is March 4, 1993 9:01 AM

*** File and Product Name Information ***

```
File name from sender   = 'apple2d.igs'
File creation Date.Time = '880614.154805'
Model change Date.Time  = ''
Author                  = 'tom'
Department              = 'GRAPHICS'
Product name from sender = 'ALIAS-Version2.4'
Destination product name = 'Unknown'
```

*** Parameter Delimiters ***

```
Delimiter = ','
Terminator = ';' 
```

*** Originating System Data ***

```
System ID           = 'Iris-2400 Turbo'
Preprocessor version = '1'
Specification version = 6 (IGES 4.0)
```

*** Precision levels ***

```
Integer bits = 32
Floating point - Exponent = 38  Mantissa = 6
Double precision - Exponent = 308  Mantissa = 15
```

*** Global Model Data ***

Model scale = 1.0000E+00
 Unit flag = 1
 Units = 'INCH'
 Line weights = 3
 Maximum line thickness = 1.000000E-02
 Minimum line thickness = 3.333333E-03
 Granularity = 1.000000E-03
 Maximum coordinate = 2.342081E+01

Drafting standard applicable to original data is not specified.

*** Status Flag Summary ***

| | | |
|---------------|----------------------------|----|
| Blank status: | Visible | 41 |
| | Blanked | 0 |
| Independence: | Independent | 39 |
| | Physically Subordinate | 0 |
| | Logically Subordinate | 2 |
| | Totally Subordinate | 0 |
| Entity use: | Geometry | 39 |
| | Annotation | 2 |
| | Definition | 0 |
| | Other | 0 |
| | Logical/Positional | 0 |
| | 2D parametric | 0 |
| | Not Specified | 0 |
| Hierarchy: | Structure DE applies | 3 |
| | Subordinate DE applies | 38 |
| | Hierarchy property applies | 0 |
| | Not Specified | 0 |

*** Entity Occurrence Counts ***

| Entity | Form | Level | Count | Type |
|--------|------|-------|-------|---|
| ----- | ---- | ----- | ----- | ----- |
| 106 | 11 | 0 | 32 | Copious data - Piecewise planar, linear string(2D path) |
| 110 | 0 | 0 | 6 | Line |
| 404 | 0 | 0 | 1 | Drawing |
| 406 | 16 | 0 | 1 | Property - Drawing size |
| 410 | 0 | 0 | 1 | View - Orthographic parallel |

*** Entity Count by Level ***

| | |
|-------|-------|
| Level | Count |
| 0 | 41 |

*** Labeling Information ***

100% of the entities are labeled.

| | |
|-----------|---|
| Unlabeled | 0 |
|-----------|---|

| | |
|---------|-------|
| Label | Count |
| P. SURF | 41 |

*** Line Fonts Used in Data ***

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | |
| - | - | - | - | - | - | - | - | Undefined |
| - | - | - | 32 | - | 6 | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |
| 116 | 118 | 120 | 122 | 124 | 125 | 126 | 128 | |
| - | - | - | - | - | - | - | - | Undefined |
| - | - | - | - | - | - | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |
| 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | |
| - | - | - | - | - | - | - | - | Undefined |
| - | - | - | - | - | - | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |

- - - - - User defined

*** Line Widths Used in Data ***

| Weight | Count | Width |
|-----------|-------|----------|
| Defaulted | 31 | (0.0033) |
| 2 | 10 | (0.0067) |

*** Colors Used in Data ***

| | |
|-----------|----|
| Defaulted | 0 |
| Red | 8 |
| Green | 33 |

***** ENTITY ANALYSIS *****

*** Entity type: 106

*** Entity type: 110

-- 6 lines averaging 1.362773E-01 units --

*** Entity type: 404

Drawing at D 77 contains 1 views.
Drawing at D 77 contains 0 annotation entities.

*** Entity type: 406

*** Entity type: 410

Scale of view at D 79 is 1.000000E+00.
Orthographic View entity at D 79 has 0 clipping planes specified.
XMIN = Not Set XMAX = Not Set
YMIN = Not Set YMAX = Not Set
ZMIN = Not Set ZMAX = Not Set

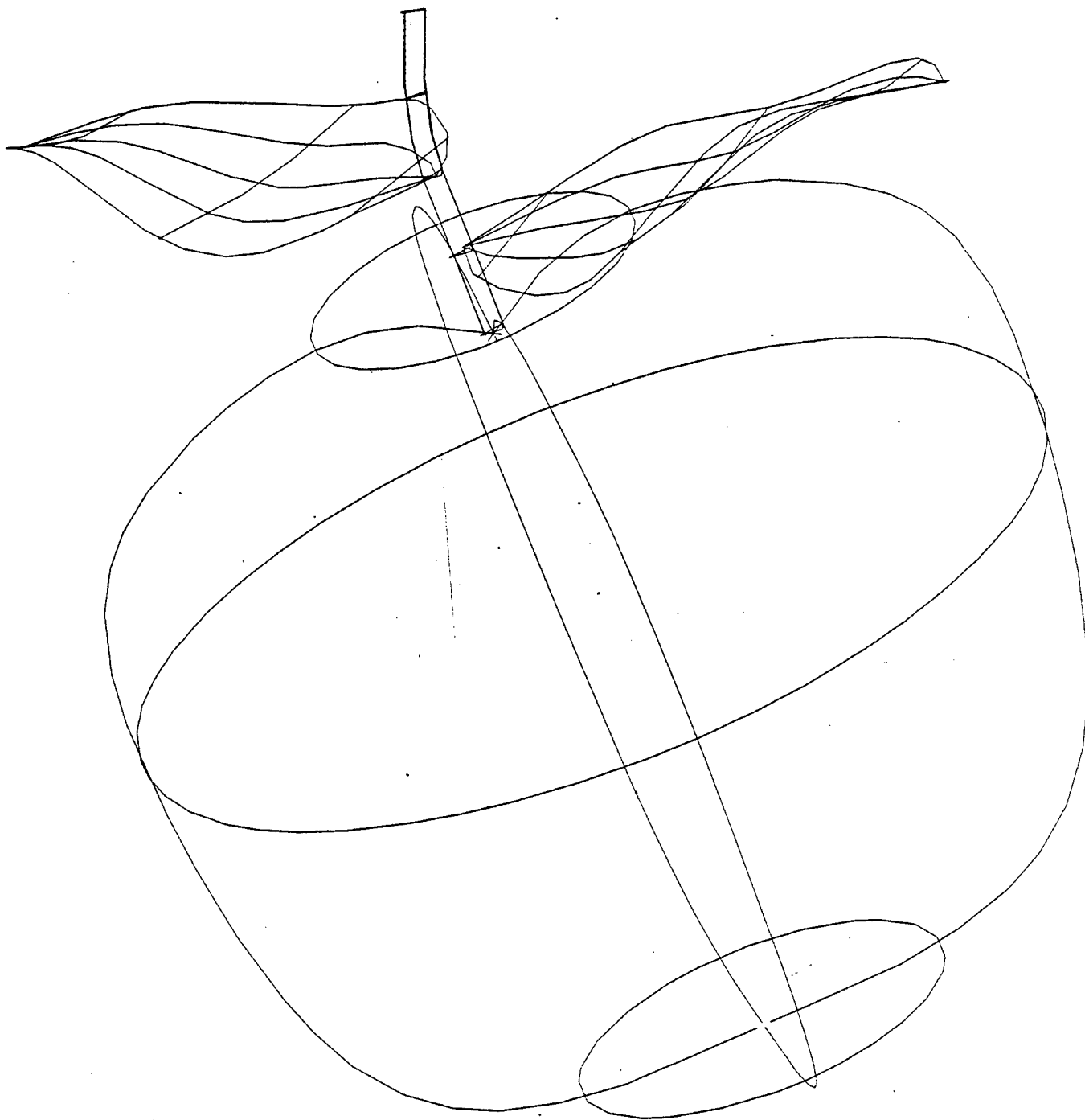
*** Message Summary ***

*** Error Summary ***

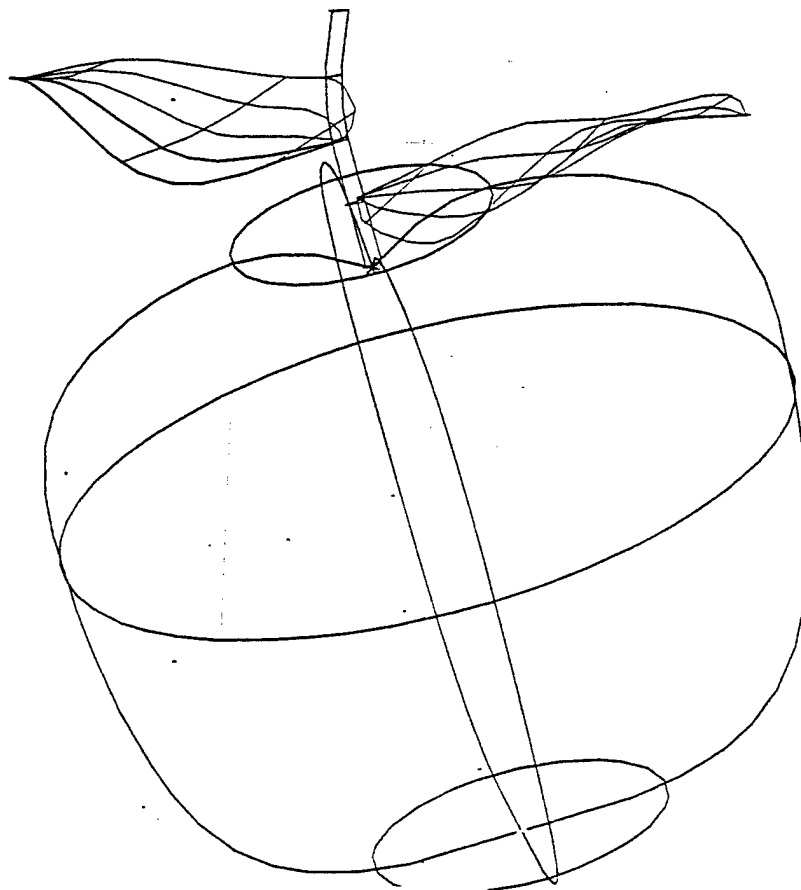
0 fatal errors
0 severe errors
0 errors
0 warnings
0 cautions
0 nitpicks
0 notes

*** End of Analysis of /novell/9316-1/q304.igs ***

10.1.2 Output AutoCAD R12



10.1.3 Output IGESView



10.2 File Q205

10.2.1 Parser/Verifier Log

```
*** IGES DATA FILE ANALYSIS ***  
***      MARCH 1992      ***  
***   IGES Data Analysis   ***  
***   (708) 449-3430     ***
```

Input file is /novell/9316-1/q305.igs

Checking conformance to CALS Class I (MIL-D-28000A 2/10/92)

Today is March 4, 1993 9:01 AM

*** File and Product Name Information ***

```
File name from sender      = 'classic2d.igs'  
File creation Date.Time   = '900621.112443'  
Model change Date.Time   = ''  
Author                    = 'Boardhead'  
Department                = 'WINDY'  
Product name from sender  = 'classic_mech.part'  
Destination product name = 'classic_mech.part'
```

*** Parameter Delimiters ***

```
Delimiter = ','  
Terminator = ';' 
```

*** Originating System Data ***

```
System ID          = 'generic CAD system'  
Preprocessor version = '1.00'  
Specification version = 6 (IGES 4.0)
```

*** Precision levels ***

```
Integer bits = 32  
Floating point - Exponent = 38  Mantissa = 6  
Double precision - Exponent = 308  Mantissa = 15
```

*** Global Model Data ***

```
Model scale          = 1.0000E+00  
Unit flag            = 2
```


Units = 'MM'
 Line weights = 3
 Maximum line thickness = 1.000000E+00
 Minimum line thickness = 3.333333E-01
 Granularity = 9.000000E-03
 Maximum coordinate = 0.000000E+00

CAUTION 2316: Maximum intended coordinate value of 0.000000E+00 will be defaulted to zero.

Drafting standard applicable to original data is ANSI.

*** Status Flag Summary ***

| | | |
|---------------|----------------------------|------|
| Blank status: | Visible | 2764 |
| | Blanked | 0 |
| Independence: | Independent | 2760 |
| | Physically Subordinate | 1 |
| | Logically Subordinate | 3 |
| | Totally Subordinate | 0 |
| Entity use: | Geometry | 977 |
| | Annotation | 1786 |
| | Definition | 0 |
| | Other | 1 |
| | Logical/Positional | 0 |
| | 2D parametric | 0 |
| | Not Specified | 0 |
| Hierarchy: | Structure DE applies | 1209 |
| | Subordinate DE applies | 1555 |
| | Hierarchy property applies | 0 |
| | Not Specified | 0 |

*** Entity Occurrence Counts ***

| Entity | Form | Level | Count | Type |
|--------|------|-------|-------|---|
| ----- | ---- | ----- | ----- | ----- |
| 100 | 0 | 0 | 242 | Circular arc |
| 104 | 1 | 0 | 15 | Conic arc - ellipse |
| 106 | 11 | 0 | 205 | Copious data - Piecewise planar, linear string(2D path) |
| 110 | 0 | 0 | 2038 | Line |
| 112 | 0 | 0 | 16 | Parametric spline curve |
| 124 | 0 | 21 | 11 | Transformation matrix |

| | | | | |
|-----|----|----|-----|--|
| 124 | 0 | 22 | 4 | |
| 212 | 0 | 0 | 152 | General note |
| 212 | 6 | 0 | 67 | General note - multiple stack/left justified |
| 212 | 7 | 0 | 1 | General note - multiple stack/center justified |
| 212 | 8 | 0 | 10 | General note - multiple stack/right justified |
| 404 | 0 | 0 | 1 | Drawing |
| 406 | 16 | 0 | 1 | Property - Drawing size |
| 410 | 0 | 0 | 1 | View - Orthographic parallel |

*** Entity Count by Level ***

| | |
|-------|-------|
| Level | Count |
| 0 | 2749 |
| 21 | 11 |
| 22 | 4 |

*** Labeling Information ***

0% of the entities are labeled.

Unlabeled 2764

*** Line Fonts Used in Data ***

| | | | | | | | | |
|-----|-----|-----|-----|-----|------|-----|-----|--------------|
| 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | |
| - | - | - | - | - | - | - | - | Undefined |
| 237 | - | 15 | 205 | - | 1779 | 16 | - | Solid |
| 4 | - | - | - | - | 97 | - | - | Dashed |
| 1 | - | - | - | - | 145 | - | - | Phantom |
| - | - | - | - | - | 17 | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |
| 116 | 118 | 120 | 122 | 124 | 125 | 126 | 128 | |
| - | - | - | - | - | - | - | - | Undefined |
| - | - | - | - | 15 | - | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |
| 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|--------------|
| - | - | - | - | - | - | - | - | Undefined |
| - | - | - | - | - | - | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |

*** Line Widths Used in Data ***

| Weight | Count | Width |
|-----------|-------|----------|
| Defaulted | 0 | (0.3333) |
| 1 | 556 | (0.3333) |
| 2 | 2208 | (0.6667) |

*** Colors Used in Data ***

| | |
|-----------|------|
| Defaulted | 0 |
| Red | 976 |
| Green | 8 |
| Blue | 96 |
| Yellow | 1563 |
| Magenta | 57 |
| White | 64 |

***** ENTITY ANALYSIS *****

*** Entity type: 100

*** Entity type: 104

*** Entity type: 106

*** Entity type: 110

CAUTION 2336: Zero length line at D 2177.
-- 2038 lines averaging 1.682598E+01 units --

*** Entity type: 112

*** Entity type: 124

15 transformation matrices, 15 non-zero translations.
NOTE 2341: 15 matrices contain translation information.

*** Entity type: 212

468 text strings in data file.
Average text aspect ratio in file is 1.0159094.
Minimum text aspect ratio in file is 0.7623553.
Maximum text aspect ratio in file is 1.1000000.

FONTS USED IN FILE

| FONT | COUNT | NAME |
|------|-------|---------------------|
| 1 | 468 | Default ASCII Style |

*** Entity type: 404

NITPICK 2074: Entity use flag must be 1 for Drawing entity at D 5523.
Drawing at D 5523 contains 1 views.
NITPICK 2289: View (D 5525) is not logically subordinate to drawing at D
5523.
Drawing at D 5523 contains 0 annotation entities.

*** Entity type: 406

*** Entity type: 410

Scale of view at D 5525 is 1.000000E+00.
Orthographic View entity at D 5525 has 0 clipping planes specified.
XMIN = Not Set XMAX = Not Set
YMIN = Not Set YMAX = Not Set
ZMIN = Not Set ZMAX = Not Set

*** Message Summary ***

2011: 1 Invalid subordinate relationships.
2015: 1 Mathematically incorrect definitions.
2016: 1 Invalid entity use flag.

*** Error Summary ***

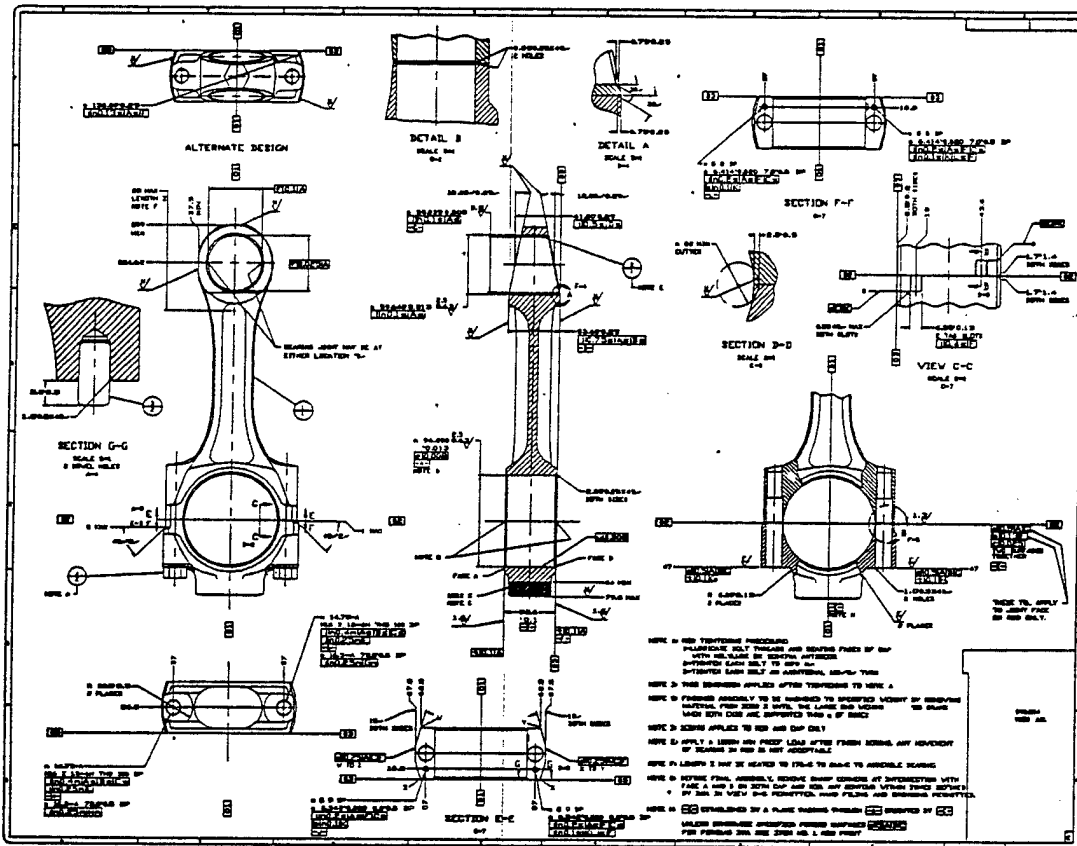
AFCTN Test Report
93-062

AFCTB Test Report
93-016

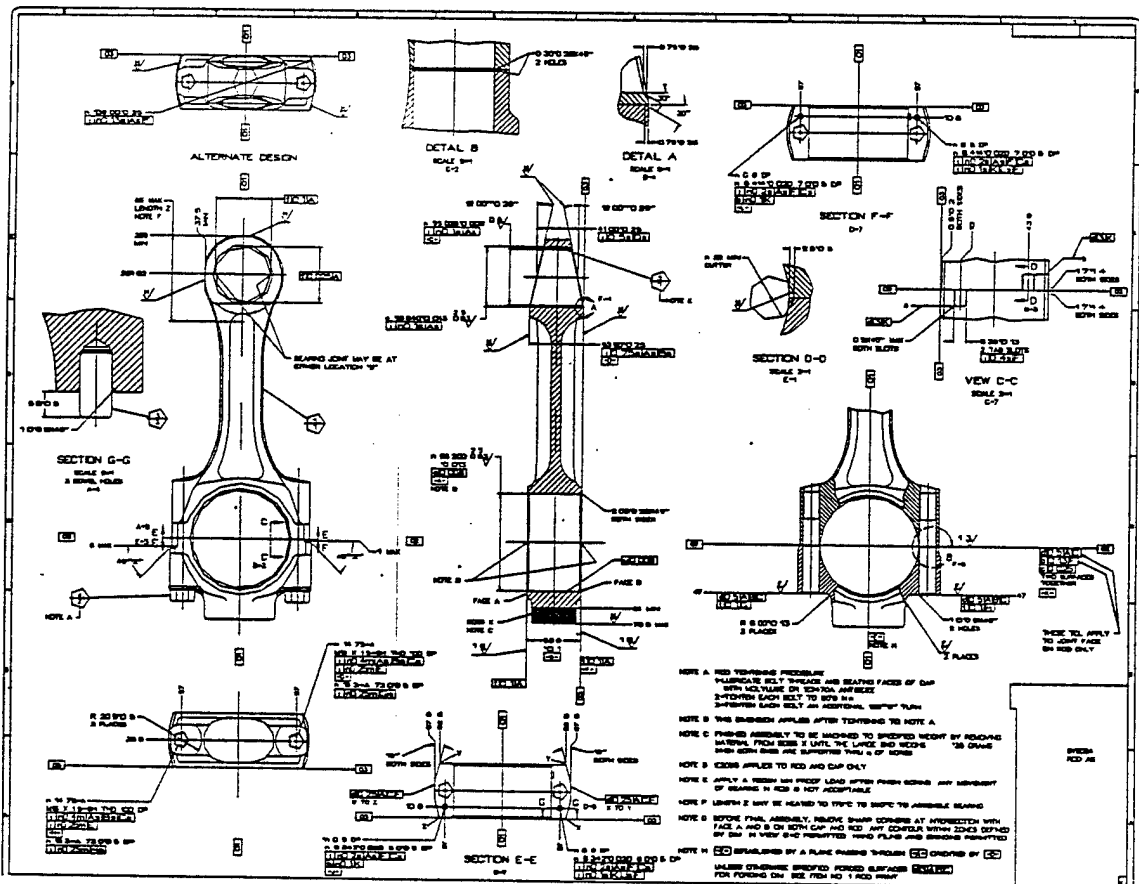
0 fatal errors
0 severe errors
0 errors
0 warnings
2 cautions
2 nitpicks
1 notes

*** End of Analysis of /novell/9316-1/q305.igs ***

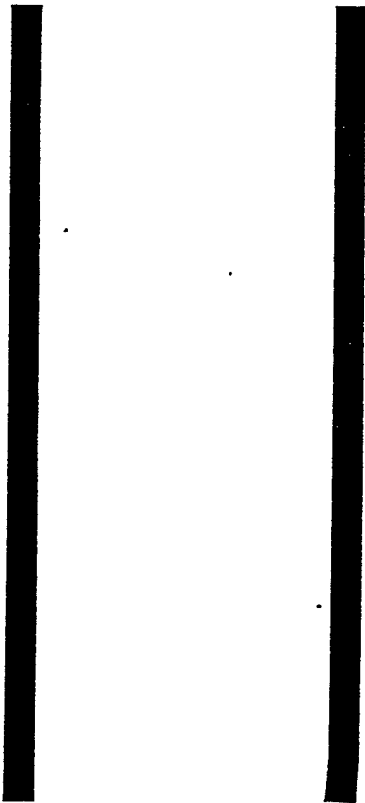
10.2.2 Output AutoCAD R12



10.2.3 Output IGESView



10.2.4 Output iges2draw/IslandDraw



10.3 File Q206

10.3.1 Parser/Verifier Log

```
*** IGES DATA FILE ANALYSIS ***  
***      MARCH 1992      ***  
***   IGES Data Analysis   ***  
***   (708) 449-3430     ***
```

Input file is /novell/9316-1/q306.igs

Checking conformance to CALS Class I (MIL-D-28000A 2/10/92)

Today is March 4, 1993 9:01 AM

*** File and Product Name Information ***

```
File name from sender   = 'IENTITY'  
File creation Date.Time = '891031.080000'  
Model change Date.Time = ''  
Author                  = 'KASSEL'  
Department              = 'Air Force CALS Test Network'  
Product name from sender = 'IENTITY'  
Destination product name = 'IENTITY'
```

*** Parameter Delimiters ***

```
Delimiter = ','  
Terminator = ';' 
```

*** Originating System Data ***

```
System ID           = 'NONE'  
Preprocessor version = 'TEST'  
Specification version = 6 (IGES 4.0)
```

*** Precision levels ***

```
Integer bits = 32  
Floating point - Exponent = 38  Mantissa = 6  
Double precision - Exponent = 308  Mantissa = 15
```

*** Global Model Data ***

```
Model scale          = 1.0000E+00  
Unit flag            = 1
```

Units = 'INCH'
 Line weights = 8
 Maximum line thickness = 1.600000E-02
 Minimum line thickness = 2.000000E-03
 Granularity = 1.000000E-02
 Maximum coordinate = 2.200000E+01

Drafting standard applicable to original data is not specified.

*** Status Flag Summary ***

| | | |
|---------------|----------------------------|-----|
| Blank status: | Visible | 148 |
| | Blanked | 0 |
| Independence: | Independent | 125 |
| | Physically Subordinate | 20 |
| | Logically Subordinate | 3 |
| | Totally Subordinate | 0 |
| Entity use: | Geometry | 84 |
| | Annotation | 54 |
| | Definition | 10 |
| | Other | 0 |
| | Logical/Positional | 0 |
| | 2D parametric | 0 |
| | Not Specified | 0 |
| Hierarchy: | Structure DE applies | 6 |
| | Subordinate DE applies | 142 |
| | Hierarchy property applies | 0 |
| | Not Specified | 0 |

*** Entity Occurrence Counts ***

| Entity | Form | Level | Count | Type |
|--------|------|-------|-------|---|
| ----- | ---- | ----- | ----- | ----- |
| 0 | 0 | 0 | 37 | Null entity |
| 100 | 0 | 0 | 3 | Circular arc |
| 102 | 0 | 0 | 2 | Composite curve |
| 104 | 0 | 0 | 1 | Conic arc - general form |
| 104 | 1 | 0 | 1 | Conic arc - ellipse |
| 104 | 2 | 0 | 1 | Conic arc - hyperbola |
| 104 | 3 | 0 | 1 | Conic arc - parabola |
| 106 | 11 | 0 | 1 | Copious data - Piecewise planar, linear string(2D path) |

| | | | | |
|-----|-----|---|----|---|
| 106 | 63 | 0 | 1 | Simple closed planar curve |
| 110 | 0 | 0 | 27 | Line |
| 112 | 0 | 0 | 2 | Parametric spline curve |
| 124 | 0 | 0 | 5 | Transformation matrix |
| 126 | 0 | 0 | 1 | Rational B-spline curve |
| 126 | 1 | 0 | 1 | Rational B-spline curve - Line |
| 126 | 2 | 0 | 1 | Rational B-spline curve - Circular arc |
| 126 | 3 | 0 | 1 | Rational B-spline curve - Elliptical arc |
| 126 | 4 | 0 | 1 | Rational B-spline curve - Parabolic arc |
| 126 | 5 | 0 | 1 | Rational B-spline curve - Hyperbolic arc |
| 212 | 0 | 0 | 38 | General note |
| 212 | 1 | 0 | 1 | General note - dual stack dimension |
| 212 | 2 | 0 | 2 | General note - imbedded font change dimension |
| 212 | 3 | 0 | 1 | General note - superscripted dimension |
| 212 | 4 | 0 | 1 | General note - subscripted dimension |
| 212 | 5 | 0 | 1 | General note - super-/sub-scripted dimension |
| 212 | 6 | 0 | 1 | General note - multiple stack/left justified |
| 212 | 7 | 0 | 1 | General note - multiple stack/center justified |
| 212 | 8 | 0 | 1 | General note - multiple stack/right justified |
| 212 | 100 | 0 | 1 | General note - simple fractional dimension |
| 212 | 101 | 0 | 1 | General note - dual stack fractional dimension |
| 212 | 102 | 0 | 1 | General note - imbedded font change/double fractio dimension |
| 212 | 105 | 0 | 1 | General note - super-/sub-scripted fractional dime |
| 230 | 0 | 0 | 1 | Sectioned area (Standard Crosshatching) |
| 308 | 0 | 0 | 1 | Subfigure definition |
| 404 | 0 | 0 | 1 | Drawing |
| 406 | 16 | 0 | 1 | Property - Drawing size |
| 406 | 18 | 0 | 1 | Property - Intercharacter spacing |
| 408 | 0 | 0 | 1 | Single subfigure instance |
| 410 | 0 | 0 | 1 | View - Orthographic parallel |
| 412 | 0 | 0 | 1 | Rectangular subfigure instance |
| 414 | 0 | 0 | 1 | Circular subfigure instance |

*** Entity Count by Level ***

| | |
|-------|-------|
| Level | Count |
| 0 | 148 |

*** Labeling Information ***

25% of the entities are labeled.

| | |
|-----------|-----|
| Unlabeled | 111 |
|-----------|-----|

*** Line Fonts Used in Data ***

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | |
| - | - | - | - | - | - | - | - | Undefined |
| 3 | 2 | 4 | 2 | - | 27 | 2 | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| 116 | 118 | 120 | 122 | 124 | 125 | 126 | 128 | |
| - | - | - | - | 5 | - | - | - | Undefined |
| - | - | - | - | - | - | 6 | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | |
| - | - | - | - | - | - | - | - | Undefined |
| - | - | - | - | - | - | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |

*** Line Widths Used in Data ***

| Weight | Count | Width |
|-----------|-------|----------|
| Defaulted | 111 | (0.0020) |

*** Colors Used in Data ***

| | |
|-----------|----|
| Defaulted | 15 |
| Red | 96 |

 ***** ENTITY ANALYSIS *****

*** Entity type: 0

NOTE 2307: Entity type not checked.

*** Entity type: 100

*** Entity type: 102

*** Entity type: 104

*** Entity type: 106

*** Entity type: 110

-- 27 lines averaging 7.156251E+00 units --

*** Entity type: 112

*** Entity type: 124

5 transformation matrices, 5 non-zero translations.

NOTE 2341: 5 matrices contain translation information.

*** Entity type: 126

*** Entity type: 212

129 text strings in data file.

Average text aspect ratio in file is 0.9982875.

Minimum text aspect ratio in file is 0.7978667.

Maximum text aspect ratio in file is 1.4857143.

FONTS USED IN FILE

| FONT | COUNT | NAME |
|------|-------|---------------------|
| 1 | 127 | Default ASCII Style |
| 1002 | 2 | Symbol Font 2 |

*** Entity type: 230

*** Entity type: 308

Subfigure name at D 25: 'PERSON'.

Number of included entities = 6.

*** Entity type: 404

Drawing at D 287 contains 1 views.
Drawing at D 287 contains 0 annotation entities.

*** Entity type: 406

*** Entity type: 408

Subfigure instance at D 263 references subfigure at D 25.

*** Entity type: 410

Scale of view at D 55 is 1.000000E+00.
Orthographic View entity at D 55 has 0 clipping planes specified.
XMIN = Not Set XMAX = Not Set
YMIN = Not Set YMAX = Not Set
ZMIN = Not Set ZMAX = Not Set

*** Entity type: 412

Rectangular subfigure instance at D 291 references entity at D 25.

*** Entity type: 414

Circular subfigure instance at D 293 references entity at D 25.





























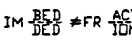




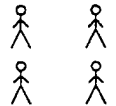
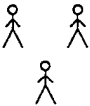
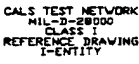
*** Message Summary ***

*** Error Summary ***


















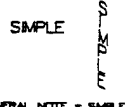










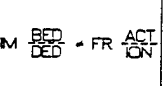
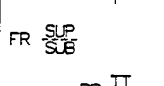
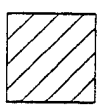


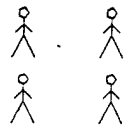
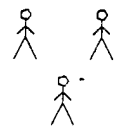
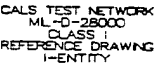
0 fatal errors
0 severe errors
0 errors
0 warnings
0 cautions
0 nitpicks
2 notes

*** End of Analysis of /novell/9316-1/q306.igs ***












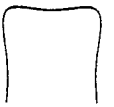






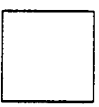

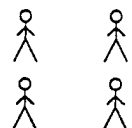
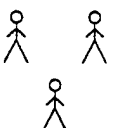
10.3.2 Output AutoCAD R12

| | | | | | | | |
|--|---|---|---|--|---|--|--|
|  CIRCULAR ARC (100) |  OPPOSITE CURVE (402) |  CONIC ARC - GENERAL (104 FORM 3) |  CONIC ARC - ELLIPSE (104 FORM 3) |  CONIC ARC - HYPERBOLA (104 FORM 2) |  CONIC ARC - PARABOLA (104 FORM 3) |  LINEAR PLANAR CURVE (106 FORM 2) |  SIMPLE CLOSED AREA (106 FORM 2) |
|  LINE (110) |  PARAMETRIC SPLINE CURVE (112) |  TRANSFORMATION MATRIX (114 FORM 3) |  RATIONAL B-SPLINE CURVE (126 FORM 3) |  RATIONAL B-SPLINE CURVE LINE (126 FORM 3) |  RATIONAL B-SPLINE CURVE CIRCULAR ARC (126 FORM 3) |  RATIONAL B-SPLINE CURVE ELLIPTICAL ARC (126 FORM 3) |  RATIONAL B-SPLINE CURVE PARABOLIC ARC (126 FORM 3) |
|  RATIONAL B-SPLINE CURVE HYPERBOLIC ARC (126 FORM 3) |  GENERAL NOTE - SIMPLE (128 FORM 3) |  DUAL STACK (128 FORM 3) |  IMBEDDED (128 FORM 3) |  SUPER (128 FORM 3) |  SUB (128 FORM 3) |  SUPER/SUB (128 FORM 3) |  MULTI STACK LEFT (128 FORM 3) |
|  MULTI STACK CENTER (128 FORM 3) |  MULTI STACK RIGHT (128 FORM 3) |  FRACTION (128 FORM 3) |  DUAL STACK BOTTOM (128 FORM 3) |  IMBEDDED FRACTION (128 FORM 3) |  FRACTION SUPER (128 FORM 3) |  SECTIONED AREA (128 FORM 3) |  SPACING (128 FORM 3) |
|  SINGLE SURFACE DISTANCE (140) |  RECTANGULAR SURFACE DISTANCE (140) |  CIRCULAR SURFACE DISTANCE (140) | | | | |  CALSTEST NETWORK MIL-D-28000 CLASS I REFERENCE DRAWING 1-ENTITY |

10.3.3 Output IGESView

| | | | | | | | |
|--|---|---|---|--|--|--|--|
|  CIRCULAR ARC (100) |  COMPOSITE CURVE (102) |  CONC ARC - GENERAL (104 FORM 0) |  CONC ARC - ELLIPSE (104 FORM 1) |  CONC ARC - HYPERBOLA (104 FORM 2) |  CONC ARC - PARABOLA (104 FORM 3) |  LINEAR PLANAR CURVE (106 FORM 1) |  SIMPLE CLOSED AREA (108 FORM 63) |
|  LINE (110) |  PARAMETRIC SPLINE CURVE (112) |  TRANSFORMATION MATRIX DMI (124 FORM 0) |  RATIONAL B-SPLINE CURVE (126 FORM 0) |  RATIONAL B-SPLINE CURVE LINE (126 FORM 1) |  RATIONAL B-SPLINE CURVE CIRCULAR ARC (126 FORM 2) |  RATIONAL B-SPLINE CURVE ELLIPTICAL ARC (126 FORM 3) |  RATIONAL B-SPLINE CURVE PARABOLIC ARC (126 FORM 4) |
|  RATIONAL B-SPLINE CURVE HYPERBOLIC ARC (126 FORM 5) |  GENERAL NOTE - SIMPLE (132 FORM 0) |  DUAL STACK (132 FORM 1) |  IN-HANDED (132 FORM 2) |  SUPER (132 FORM 3) |  SUB (132 FORM 4) |  SUPER/SUB (132 FORM 5) |  MULTI STACK LEFT (132 FORM 6) |
|  MULTI STACK CENTER (132 FORM 7) |  MULTI STACK RIGHT (132 FORM 8) |  FRACTION (132 FORM 100) |  DUAL STACK FRACTION (132 FORM 101) |  FONT/DOUBLE FRACTION (132 FORM 102) |  SUPER/SUB FRACTION (132 FORM 105) |  SECTIONED AREA (132) |  INTERCHARACTER SPACING (140 FORM 8) |
|  SINGLE SUBFIGURE INSTANCE (140) |  RECTANGULAR SUBFIGURE INSTANCE (142) |  CIRCULAR SUBFIGURE INSTANCE (144) | | | | |  CALS TEST NETWORK ML-D-28000 CLASS 1 REFERENCE DRAWING I-ENTITY |

10.3.4 Output iges2draw/IslandDraw

| | | | | | | | |
|--|---|---|---|--|--|--|---|
|  CIRCULAR ARC (100) |  COMPOSITE CURVE (102) |  CONIC ARC - GENERAL (104 FORM 0) |  CONIC ARC - ELLIPSE (104 FORM 1) |  CONIC ARC - HYPERBOLA (104 FORM 2) |  CONIC ARC - PARABOLA (104 FORM 3) |  LINEAR PLANAR CURVE (106 FORM 11) |  SIMPLE CLOSED AREA (108 FORM 83) |
|  LINE (110) |  PARAMETRIC SPLINE CURVE (112) |  TRANSFORMATION MATRIX D=1 (124 FORM 0) |  RATIONAL B-SPLINE CURVE (126 FORM 0) |  RATIONAL B-SPLINE CURVE LINE (126 FORM 1) |  RATIONAL B-SPLINE CURVE CIRCULAR ARC (126 FORM 2) |  RATIONAL B-SPLINE CURVE ELLIPTICAL ARC (126 FORM 3) |  RATIONAL B-SPLINE CURVE PARABOLIC ARC (126 FORM 4) |
|  RATIONAL B-SPLINE CURVE HYPERBOLIC ARC (126 FORM 6) | SIMPLE  GENERAL NOTE - SIMPLE (212 FORM 0) | DUAL STACK NOTE - DUAL STACK (212 FORM 1) | IM+ \rightarrow DED NOTE - IMBEDDED FONT CHANGE (212 FORM 2) | S^{SUPER} NOTE - SUPERSCRIPT (212 FORM 3) | S^{SUB} NOTE - SUBSCRIPT (212 FORM 4) | $S^{\text{SUPER}}_{\text{SUB}}$ NOTE - SUPER/SUBSCRIPT (212 FORM 5) | M STACK LEFT NOTE - MULTI STACK LEFT JUST (212 FORM 9) |
| M STACK CENTER NOTE - MULTI STACK CENTER JUST (212 FORM 7) | M STACK RIGHT NOTE - MULTI STACK RIGHT JUST (212 FORM 8) | FRAC TION NOTE - SIMPLE FRACTION (212 FORM 108) | DUAL TO P STACK BOT TOM NOTE - DUAL STACK FRACTION (212 FORM 101) | IM BED DED = FR ACT ION FR SUP SUB BO TT OM NOTE - FONT/DOUBLE FRACTION (212 FORM 102) | T - O P FR SUP SUB BO TT OM NOTE - SUPER/SUB FRACTION (212 FORM 105) |  SECTIONED AREA (230) | SPACING INTERCHARACTER SPACING (408 FORM 18) |
|  SINGLE SUBFIGURE INSTANCE (408) |  RECTANGULAR SUBFIGURE INSTANCE (412) |  CIRCULAR SUBFIGURE INSTANCE (414) | | | | | CALS TEST NETWORK MIL-D-28000 CLASS 1 REFERENCE DRAWING IDENTITY |

10.4 File Q207

10.4.1 Parser/Verifier Log

```
*** IGES DATA FILE ANALYSIS ***  
***      MARCH 1992      ***  
***   IGES Data Analysis   ***  
***   (708) 449-3430     ***
```

Input file is /novell/9316-1/q307.igs

Checking conformance to CALS Class I (MIL-D-28000A 2/10/92)

Today is March 4, 1993 9:02 AM

*** File and Product Name Information ***

```
File name from sender      = 'LGTABLE'  
File creation Date.Time    = '890707.090000'  
Model change Date.Time    = ''  
Author                    = 'FARRELL'  
Department                = 'Air Force CALS Test Network'  
Product name from sender  = 'LGTABLE'  
Destination product name  = 'LGTABLE'
```

*** Parameter Delimiters ***

```
Delimiter = ','  
Terminator = ';' 
```

*** Originating System Data ***

```
System ID          = 'NONE'  
Preprocessor version = 'TEST'  
Specification version = 6 (IGES 4.0)
```

*** Precision levels ***

```
Integer bits = 32  
Floating point - Exponent = 38  Mantissa = 6  
Double precision - Exponent = 308  Mantissa = 15
```

*** Global Model Data ***

```
Model scale          = 1.0000E+00  
Unit flag           = 1
```

Units = 'IN'
 Line weights = 25
 Maximum line thickness = 1.000000E-01
 Minimum line thickness = 4.000000E-03
 Granularity = 1.000000E-04
 Maximum coordinate = 2.000000E+01

Drafting standard applicable to original data is not specified.

*** Status Flag Summary ***

| | | |
|---------------|----------------------------|-----|
| Blank status: | Visible | 272 |
| | Blanked | 0 |
| Independence: | Independent | 259 |
| | Physically Subordinate | 11 |
| | Logically Subordinate | 2 |
| | Totally Subordinate | 0 |
| Entity use: | Geometry | 218 |
| | Annotation | 54 |
| | Definition | 0 |
| | Other | 0 |
| | Logical/Positional | 0 |
| | 2D parametric | 0 |
| | Not Specified | 0 |
| Hierarchy: | Structure DE applies | 1 |
| | Subordinate DE applies | 271 |
| | Hierarchy property applies | 0 |
| | Not Specified | 0 |

*** Entity Occurrence Counts ***

| Entity | Form | Level | Count | Type |
|--------|------|-------|-------|---|
| ----- | ---- | ----- | ----- | ---- |
| 0 | 0 | 0 | 4 | Null entity |
| 100 | 0 | 0 | 85 | Circular arc |
| 102 | 0 | 0 | 2 | Composite curve |
| 104 | 0 | 0 | 5 | Conic arc - general form |
| 110 | 0 | 0 | 116 | Line |
| 112 | 0 | 0 | 12 | Parametric spline curve |
| 124 | 0 | 0 | 3 | Transformation matrix |
| 212 | 0 | 0 | 37 | General note |
| 230 | 0 | 0 | 5 | Sectioned area (Standard Crosshatching) |

| | | | | |
|-----|----|---|---|------------------------------|
| 404 | 0 | 0 | 1 | Drawing |
| 406 | 16 | 0 | 1 | Property - Drawing size |
| 410 | 0 | 0 | 1 | View - Orthographic parallel |

*** Entity Count by Level ***

| | |
|-------|-------|
| Level | Count |
| 0 | 272 |

*** Labeling Information ***

99% of the entities are labeled.

Unlabeled 1

| Label | Count | Label | Count | Label | Count |
|--------|-------|---------|-------|--------|-------|
| VIEW | 1* | DRAWING | 1* | TX0044 | 5* |
| TX0045 | 5* | LN0141 | 1* | LN0142 | 1* |
| LN0143 | 1* | LN0144 | 1* | LN0145 | 1* |

<<<<< PART OF LOG FILE REMOVED HERE >>>>>

| | | | | | |
|--------|----|--------|----|--------|----|
| TX0080 | 1* | CC0001 | 1* | CC0002 | 1* |
| SA0001 | 1* | SA0002 | 1* | SA0003 | 1* |
| SA0004 | 1* | SA0005 | 1* | | |

NITPICK 2327: One or more of the flagged entity labels are not right-justified.

*** Line Fonts Used in Data ***

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | |
| - | - | - | - | - | - | - | - | Undefined |
| 85 | 2 | 5 | - | - | 107 | 12 | - | Solid |
| - | - | - | - | - | 9 | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | User defined |
| 116 | 118 | 120 | 122 | 124 | 125 | 126 | 128 | |
| - | - | - | - | 3 | - | - | - | Undefined |
| - | - | - | - | - | - | - | - | Solid |
| - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | Phantom |

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|---|--------------|
| - | - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | - | User defined |
| 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | | |
| - | - | - | - | - | - | - | - | - | Undefined |
| - | - | - | - | - | - | - | - | - | Solid |
| - | - | - | - | - | - | - | - | - | Dashed |
| - | - | - | - | - | - | - | - | - | Phantom |
| - | - | - | - | - | - | - | - | - | Center-line |
| - | - | - | - | - | - | - | - | - | Dotted |
| - | - | - | - | - | - | - | - | - | User defined |

*** Line Widths Used in Data ***

| Weight | Count | Width |
|-----------|-------|----------|
| Defaulted | 58 | (0.0040) |
| 3 | 22 | (0.0120) |
| 2 | 126 | (0.0080) |
| 4 | 62 | (0.0160) |

*** Colors Used in Data ***

| | |
|-----------|-----|
| Defaulted | 184 |
| Blue | 22 |
| Cyan | 62 |

 ***** ENTITY ANALYSIS *****

*** Entity type: 0

NOTE 2307: Entity type not checked.

*** Entity type: 100

*** Entity type: 102

*** Entity type: 104

*** Entity type: 110

-- 116 lines averaging 5.327616E-01 units --

*** Entity type: 112

*** Entity type: 124

3 transformation matrices, 3 non-zero translations.

NOTE 2341: 3 matrices contain translation information.

*** Entity type: 212

47 text strings in data file.

Average text aspect ratio in file is 0.7899535.

Minimum text aspect ratio in file is 0.7579661.

Maximum text aspect ratio in file is 1.0525425.

FONTS USED IN FILE

| FONT | COUNT | NAME |
|------|-------|---------------------|
| 1 | 47 | Default ASCII Style |

*** Entity type: 230

*** Entity type: 404

Drawing at D 5 contains 1 views.

Drawing at D 5 contains 0 annotation entities.

*** Entity type: 406

*** Entity type: 410

Scale of view at D 1 is 1.000000E+00.

Orthographic View entity at D 1 has 0 clipping planes specified.

XMIN = Not Set XMAX = Not Set

YMIN = Not Set YMAX = Not Set

ZMIN = Not Set ZMAX = Not Set

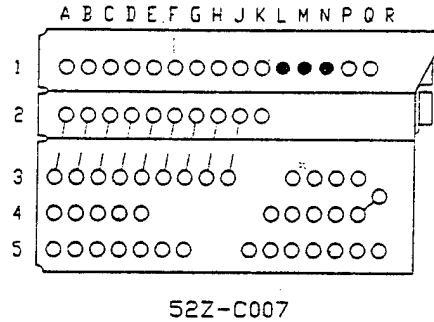
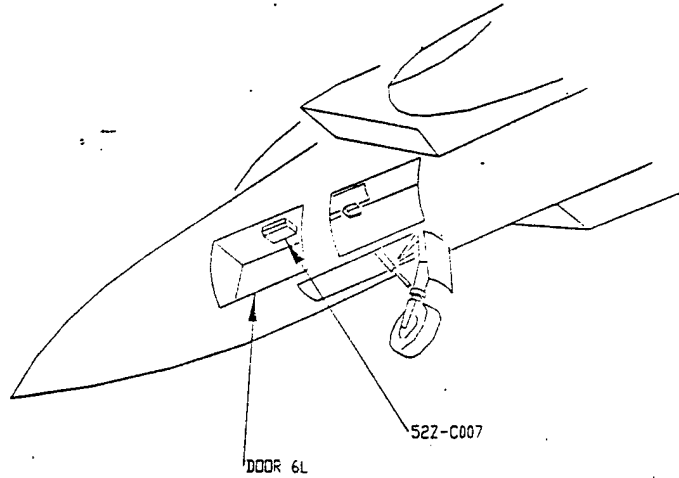
*** Message Summary ***

*** Error Summary ***

0 fatal errors
0 severe errors
0 errors
0 warnings
0 cautions
1 nitpicks
2 notes

*** End of Analysis of /novell/9316-1/q307.igs ***

10.4.2 Output AutoCAD R12

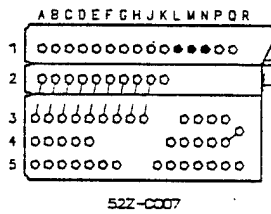
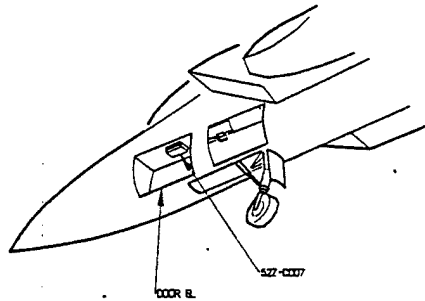


52Z-C007

| 52Z-C007 | | ESSENTIAL CIRCUIT BREAKER PANEL NO. 1 | | (24-50-12) | |
|----------|------|---------------------------------------|-------------|------------|-----------|
| REF DES | ZONE | NOMENCLATURE | | BUS | |
| 41CBC033 | L1 | R | MLG VDV PVR | 28VDC | ESS 28VDC |
| 41CBC034 | M1 | L | MLG VDV PVR | 28VDC | ESS 28VDC |
| 42CBC005 | N1 | LDG GR | POS IND | 28VDC | ESS 28VDC |

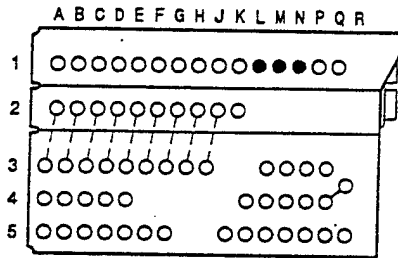
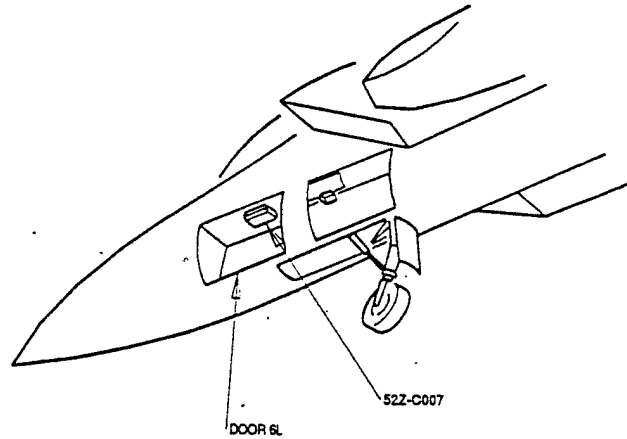
CALS Test Network LGTABLE Reference Illustration

10.4.3 Output IGESView



| 52Z-007 | | ESSENTIAL CIRCUIT BREAKER PANEL NO. 1 | | (24-10-02) | |
|---------|------|---------------------------------------|--|------------|-----------|
| REF DES | ZONE | NOMENCLATURE | | BUS | |
| 410B003 | L1 | R ILC NOW PWR | | 28VDC | ESS 28VDC |
| 410B004 | M1 | L ILC NOW PWR | | 28VDC | ESS 28VDC |
| 420B005 | M1 | LCG GR POS NO | | 28VDC | ESS 28VDC |

10.4.4 Output iges2draw/IslandDraw



| 52Z-C007 | | ESSENTIAL CIRCUIT BREAKER PANEL NO. 1 | | (24-50-12) |
|----------|------|---------------------------------------|-------|------------|
| REF DES | ZONE | NOMENCLATURE | | BUS |
| 41CBC033 | L1 | R MLG WOW PWR | 28VDC | ESS 28VDC |
| 41CBC034 | M1 | L MLG WOW PWR | 28VDC | ESS 28VDC |
| 42CBC005 | N1 | LDG GR POS IND | 28VDC | ESS 28VDC |

CALS Test Network LGTABLE Reference Illustration

11. Appendix C - Detailed SGML Analysis

11.1 Datalogics Parser Log

11.1.1 DTD Parser Log

SGML Document Type Definition Parser
Version 3.36
Copyright (c) Datalogics 1988, 1989, 1990, 1991
An SGML System Conforming to
International Standard ISO 8879
Standard Generalized Markup Language

Log file: '9316.LOG'
SDO File: 'ctndocl.sdo'
Namecase General is yes.
Namecase Entity is no.
Parsing DTD file: '9316.dtd'

DTD0095: Start tag for element 'DATABASE' cannot be omitted if the element had declared content (CDATA, RCDATA, EMPTY).
DTD0095: Start tag for element 'MEDIUM' cannot be omitted if the element had declared content (CDATA, RCDATA, EMPTY).
DTD0096: The generic ID SHORTTITLE has not been used in any content model, inclusion, or as a doctype element.
DTD0096: The generic ID CONTASSURPG has not been used in any content model, inclusion, or as a doctype element.
DTD0096: The generic ID REFDOC has not been used in any content model, inclusion, or as a doctype element.
DTD0096: The generic ID CFGPGE has not been used in any content model, inclusion, or as a doctype element.
DTD0096: The generic ID COVERINDEX has not been used in any content model, inclusion, or as a doctype element.
DTD0096: The generic ID STALOC has not been used in any content model, inclusion, or as a doctype element.
DTD0096: The generic ID TESTCODE has not been used in any content model, inclusion, or as a doctype element.
This DTD conforms to the ISO 8879 standard

DTO file '9316.DTO' created

closing statistics:
Capacity points: 71912
Bytes of DTO file string space: 12664

AFCTN Test Report
93-062

AFCTB Test Report
93-016

SGML descriptor blocks: 7101

Document Type Definition is compliant and parsed normally.

Program status code: 0.

12. Appendix D - Detailed Raster Analysis

12.1 File R104

12.1.1 Output Preview

| U.S. ARMY MATERIEL COMMAND U.S. ARMY MISSILE COMMAND REDSTONE ARSENAL, ALABAMA | | PARTS LIST | | PL 10677287 | | | | | |
|--|----------------------------|------------------------------|--------------------|-------------------------------|----|----|---------------------|-------|------------------|
| TITLE OSCILLATOR, VOLTAGE CONTROLLED-COHD-A3A13 | | USAMCOM 63343 | DATE 16 NOV 70 REV | CODE IDENTIFICATION NO. 18876 | | | | | |
| FIND NO. | PART OR IDENTIFICATION NO. | DRAWING OR SPECIFICATION NO. | MONENCLATURE | QUANTITY | PL | MI | EFFECTIVITY FROM TO | ZONE* | NOTES OR REMARKS |
| | 10181751-207 | 10181751 | RESISTOR | | | | | | |
| | 10181751-208 | 10181751 | RESISTOR | | | | | | |
| | 10181751-209 | 10181751 | RESISTOR | | | | | | |
| | 10181751-210 | 10181751 | RESISTOR | | | | | | |
| | 10181751-211 | 10181751 | RESISTOR | | | | | | |
| | 10181751-212 | 10181751 | RESISTOR | | | | | | |
| | 10181751-213 | 10181751 | RESISTOR | | | | | | |
| | 10181751-214 | 10181751 | RESISTOR | | | | | | |
| | 10181751-215 | 10181751 | RESISTOR | | | | | | |
| 2 | 10181752-261 | 10181752 | RESISTOR | 1 | | | | | |
| 3 | 10181752-357 | 10181752 | RESISTOR | 1 | | | | | |
| 4 | 10181751-147 | 10181751 | RESISTOR | 2 | | | | | |
| 5 | 10180306-239 | 10180306 | RESISTOR | 2 | | | | | |
| 6 | 10181751-133 | 10181751 | RESISTOR | 1 | | | | | |
| 7 | 10181751-166 | 10181751 | RESISTOR | 1 | | | | | |
| 8 | 10180328-418 | 10180328 | RESISTOR | 1 | | | | | |
| 9 | 10181752-283 | 10181752 | RESISTOR | 1 | | | | | |
| 10 | 10181752-298 | 10181752 | RESISTOR | 1 | | | | | |
| 11 | 10181752-306 | 10181752 | RESISTOR | 1 | | | | | |
| 12 | 10181752-297 | 10181752 | RESISTOR | 1 | | | | | |
| 13 | 10181752-289 | 10181752 | RESISTOR | 1 | | | | | |
| 14 | 10181752-271 | 10181752 | RESISTOR | 1 | | | | | |
| 15 | 10181752-310 | 10181752 | RESISTOR | 1 | | | | | |
| 16 | 10181751-35 | 10181751 | RESISTOR | 1 | | | | | 1 |
| | 10181751-1 | 10181751 | RESISTOR | | | | | | |
| | 10181751-2 | 10181751 | RESISTOR | | | | | | |
| | 10181751-3 | 10181751 | RESISTOR | | | | | | |
| | 10181751-4 | 10181751 | RESISTOR | | | | | | |
| | 10181751-5 | 10181751 | RESISTOR | | | | | | |
| | 10181751-6 | 10181751 | RESISTOR | | | | | | |

* OPTIONAL

12.1.2 Output HiJaak for Windows

| U.S. ARMY MATERIEL COMMAND U.S. ARMY MISSILE COMMAND REDSTONE ARSENAL, ALABAMA | | | PARTS LIST | | PL 10677267 CODE IDENTIFICATION NO. 18876 | | | | |
|--|----------------------------|------------------------------|-----------------------|----------------|---|------------|---------------------|------|------------------|
| TITLE OSCILLATOR, VOLTAGE CONTROLLED-COMO-ASA13 | | | USAMICOM ECP 63343 | DATE 16 NOV 79 | REV - | SHEET 3 OF | | | |
| FIND NO. | PART OR IDENTIFICATION NO. | DRAWING OR SPECIFICATION NO. | NOMENCLATURE | QUANTITY | PL | MI | EFFECTIVITY FROM TO | ZONE | NOTES OR REMARKS |
| | 10181751-207 | 10181751 | RESISTOR | | | | | | |
| | 10181751-208 | 10181751 | RESISTOR | | | | | | |
| | 10181751-209 | 10181751 | RESISTOR | | | | | | |
| | 10181751-210 | 10181751 | RESISTOR | | | | | | |
| | 10181751-211 | 10181751 | RESISTOR | | | | | | |
| | 10181751-212 | 10181751 | RESISTOR | | | | | | |
| | 10181751-213 | 10181751 | RESISTOR | | | | | | |
| | 10181751-214 | 10181751 | RESISTOR | | | | | | |
| | 10181751-215 | 10181751 | RESISTOR | | | | | | |
| 2 | 10181752-261 | 10181752 | RESISTOR | 1 | | | | | |
| 3 | 10181752-357 | 10181752 | RESISTOR | 1 | | | | | |
| 4 | 10181751-147 | 10181751 | RESISTOR | 1 | | | | | |
| 5 | 10180306-239 | 10180306 | RESISTOR | 2 | | | | | |
| 6 | 10181751-133 | 10181751 | RESISTOR | 1 | | | | | |
| 7 | 10181751-166 | 10181751 | RESISTOR | 1 | | | | | |
| 8 | 10180328-618 | 10180328 | RESISTOR | 1 | | | | | |
| 9 | 10181752-283 | 10181752 | RESISTOR | 1 | | | | | |
| 10 | 10181752-298 | 10181752 | RESISTOR | 1 | | | | | |
| 11 | 10181752-306 | 10181752 | RESISTOR | 1 | | | | | |
| 12 | 10181752-297 | 10181752 | RESISTOR | 1 | | | | | |
| 13 | 10181752-289 | 10181752 | RESISTOR | 1 | | | | | |
| 14 | 10181752-271 | 10181752 | RESISTOR | 1 | | | | | |
| 15 | 10181752-310 | 10181752 | RESISTOR | 1 | | | | | |
| 16 | 10181751-55 | 10181751 | RESISTOR | 1 | | | | | |
| | 10181751-1 | 10181751 | RESISTOR | 1 | | | | | 1 |
| | 10181751-2 | 10181751 | RESISTOR | | | | | | |
| | 10181751-3 | 10181751 | RESISTOR | | | | | | |
| | 10181751-4 | 10181751 | RESISTOR | | | | | | |
| | 10181751-5 | 10181751 | RESISTOR | | | | | | |
| | 10181751-6 | 10181751 | RESISTOR | | | | | | |

13. Appendix E - Detailed CGM Analysis

13.1 File C204

13.1.1 Parser Log MetaCheck

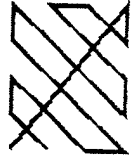
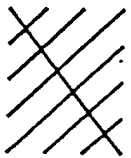
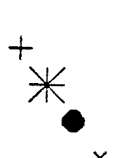
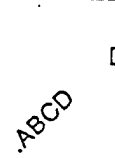

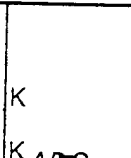

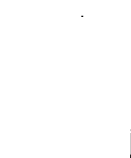










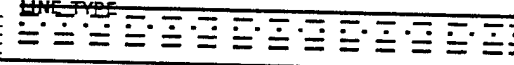
13.1.2 validcgm Log

Analysis for file c204.cgm using table table
MILSPEC 28003 error: illegal hatch index

| (132, 1392) | (5, 24, 2) | Hatch Index 6 |
|-------------|-------------------|---------------|
| (0, 1) | occurred 1 time | |
| (0, 2) | occurred 1 time | |
| (0, 3) | occurred 1 time | |
| (0, 4) | occurred 1 time | |
| (0, 5) | occurred 1 time | |
| (1, 1) | occurred 1 time | |
| (1, 2) | occurred 1 time | |
| (1, 3) | occurred 1 time | |
| (1, 4) | occurred 1 time | |
| (1, 7) | occurred 1 time | |
| (1, 8) | occurred 1 time | |
| (1, 9) | occurred 1 time | |
| (1, 11) | occurred 1 time | |
| (1, 13) | occurred 1 time | |
| (2, 2) | occurred 1 time | |
| (2, 3) | occurred 1 time | |
| (2, 4) | occurred 1 time | |
| (2, 5) | occurred 1 time | |
| (2, 6) | occurred 1 time | |
| (2, 7) | occurred 1 time | |
| (4, 1) | occurred 15 times | |
| (4, 2) | occurred 1 time | |
| (4, 3) | occurred 5 times | |
| (4, 4) | occurred 46 times | |
| (4, 5) | occurred 3 times | |
| (4, 6) | occurred 1 time | |
| (4, 7) | occurred 1 time | |
| (4, 8) | occurred 1 time | |
| (4, 9) | occurred 1 time | |
| (4, 11) | occurred 4 times | |
| (4, 12) | occurred 1 time | |
| (4, 13) | occurred 1 time | |


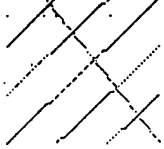

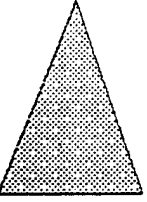
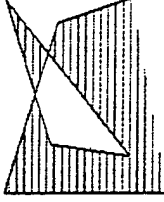

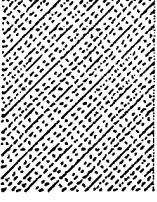




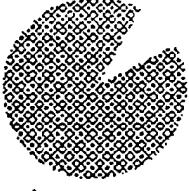
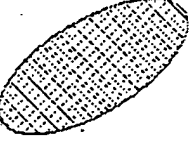

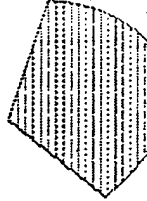
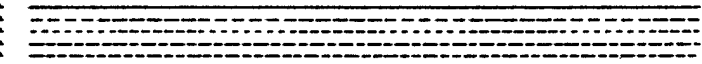
(4, 14) occurred 1 time
(4, 15) occurred 1 time
(4, 16) occurred 1 time
(4, 17) occurred 1 time
(4, 18) occurred 1 time
(4, 19) occurred 1 time
(5, 2) occurred 10 times
(5, 3) occurred 6 times
(5, 4) occurred 4 times
(5, 6) occurred 5 times
(5, 7) occurred 5 times
(5, 8) occurred 5 times
(5, 10) occurred 4 times
(5, 11) occurred 1 time
(5, 12) occurred 3 times
(5, 13) occurred 3 times
(5, 14) occurred 8 times
(5, 15) occurred 7 times
(5, 16) occurred 5 times
(5, 17) occurred 4 times
(5, 22) occurred 3 times
(5, 23) occurred 8 times
(5, 24) occurred 8 times
(5, 28) occurred 7 times
(5, 29) occurred 7 times
(5, 30) occurred 3 times
(5, 34) occurred 1 time

13.1.3 Output Harvard Graphics

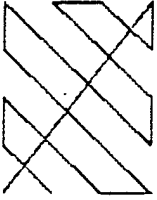

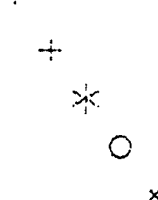
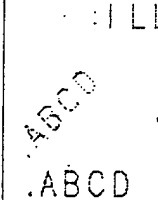
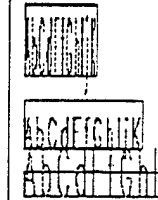
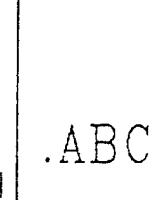
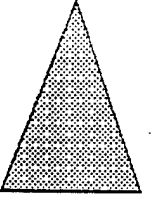
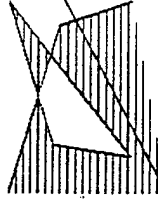

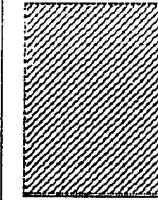
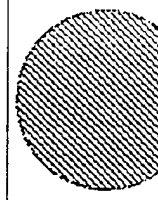
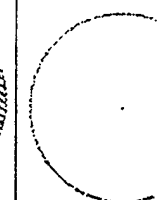



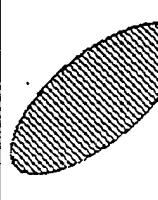
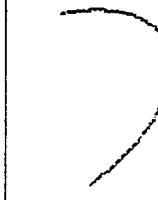
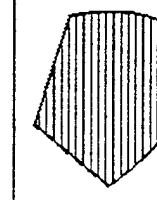
| | | | | | |
|--|---|---|---|--|---|
|  |  |  |  |  |  |
| (1) POLYLINE | (2) DISJOINT POLYLINE | (3) POLYMARKER | (4) TEXT | (5) RESTRICTED TEXT | (6) APPEND TEXT |
|  |  |  |  |  |  |
| (7) POLYGON | (8) POLYGON SET | (9) CELL ARRAY | (11) RECTANGLE | (12) CIRCLE | (13) CIRCULAR ARC 3 POINT |
|  |  |  |  |  |  |
| (14) CIRCULAR ARC 3 POINT CLOSE | (15) CIRCULAR ARC CENTRE | (16) CIRCULAR ARC CENTRE CLOSE | (17) ELLIPSE | (18) ELLIPTICAL ARC | (19) ELLIPTICAL ARC CLOSE |
| <p>LINE TYPE</p>  | | | | <p>CALS TEST NETWORK MIL-D-28003 Computer Graphics Metafile File: CTN-011d; Draft 31-10-03</p> | |

HG305 - C204 - 9316

13.1.4 Output IslandDraw

| | | | | | |
|---|---|---|---|---|---|
|  |  | |  | AbCdEfGhIjK AbCdEfGhIjK AbCdEfGhIjK | |
| (1) POLYLINE | (2) DISJOINT POLYLINE | (3) POLYMARKER | (4) TEXT | (5) RESTRICTED TEXT | (6) APPEND TEXT |
|  |  |  |  |  |  |
| (7) POLYGON | (8) POLYGON SET | (9) CELL ARRAY | (11) RECTANGLE | (12) CIRCLE | (13) CIRCULAR ARC 3 POINT |
|  |  |  |  |  |  |
| (14) CIRCULAR ARC 3 POINT CLOSE | (15) CIRCULAR ARC CENTRE | (16) CIRCULAR ARC CENTRE CLOSE | (17) ELLIPSE | (18) ELLIPTICAL ARC | (19) ELLIPTICAL ARC CLOSE |
| <p>LINETYPE</p>  | | | | <p>CALS TEST NETWORK MIL-D-28003 Computer Graphics Metafile File: CTN-01d, Draft 91-10-03</p> | |

13.1.5 Output cgm2draw/IslandDraw

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| (1) POLYLINE | (2) DISJOINT POLYLINE | (3) POLYMARKER | (4) TEXT | (5) RESTRICTED TEXT | (6) APPEND TEXT |
|  |  |  |  |  |  |
| (7) POLYGON | (8) POLYGON SET | (9) CELL ARRAY | (11) RECTANGLE | (12) CIRCLE | (13) CIRCULAR ARC 3 POINT |
|  |  |  |  |  |  |
| (14) CIRCULAR ARC 3 POINT CLOSE | (15) CIRCULAR ARC CENTRE | (16) CIRCULAR ARC CENTRE CLOSE | (17) ELLIPSE | (18) ELLIPTICAL ARC | (19) ELLIPTICAL ARC CLOSE |

LINE TYPE
 t _____
 t _____
 t _____
 t _____

CALS TEST NETWORK
 MIL-D-28003
 Computer Graphics Metafile
 File: CTN-01Id, Draft 91-10-03

13.2 File C205

13.2.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:44:53

Metafile Examined : i:\9316-1\c205.cgm

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

=====
Trace Report
=====

Tracing not selected.

=====
CGM Conformance Violation Report
=====

No Errors Detected

=====
CALC CGM Profile (MIL-D-28003) Report
=====

No profile discrepancies detected.

=====
Conformance Summary Report
=====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:44:56

Name of CGM under test: i:\9316-1\c205.cgm
Encoding : Binary

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

BEGIN METAFILE string : "AFCTN-01Rd"
METAFILE DESCRIPTION : "AFCTN-01Rd, 91-10-03, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 162; string contains: "All Graphical
Primitive Elements"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested
213 Elements Tested
3252 Octets Tested

```
=====
| No Errors Were Detected |
=====
```

===== End of Conformance Report =====

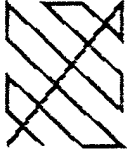
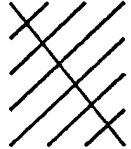
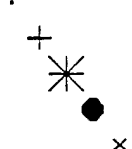

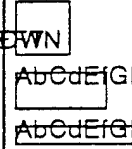
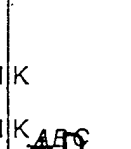




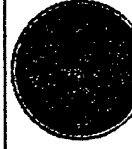
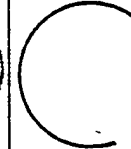




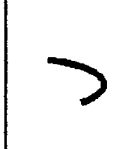

13.2.2 validcgm Log

Analysis for file c205.cgm using table table
MILSPEC 28003 error: illegal hatch index
(132, 1834) (5, 24, 2) Hatch Index 6

| | |
|---------|-------------------|
| (0, 1) | occurred 1 time |
| (0, 2) | occurred 1 time |
| (0, 3) | occurred 1 time |
| (0, 4) | occurred 1 time |
| (0, 5) | occurred 1 time |
| (1, 1) | occurred 1 time |
| (1, 2) | occurred 1 time |
| (1, 3) | occurred 1 time |
| (1, 5) | occurred 1 time |
| (1, 7) | occurred 1 time |
| (1, 8) | occurred 1 time |
| (1, 9) | occurred 1 time |
| (1, 11) | occurred 1 time |
| (1, 13) | occurred 1 time |
| (2, 2) | occurred 1 time |
| (2, 3) | occurred 1 time |
| (2, 4) | occurred 1 time |
| (2, 5) | occurred 1 time |
| (2, 6) | occurred 1 time |
| (2, 7) | occurred 1 time |
| (4, 1) | occurred 15 times |
| (4, 2) | occurred 1 time |
| (4, 3) | occurred 5 times |
| (4, 4) | occurred 46 times |

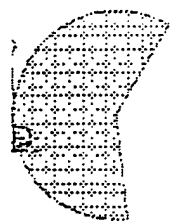
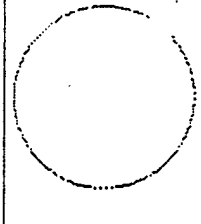
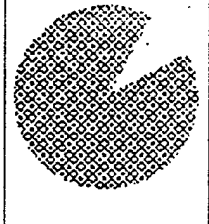
(4, 5) occurred 3 times
(4, 6) occurred 1 time
(4, 7) occurred 1 time
(4, 8) occurred 1 time
(4, 9) occurred 1 time
(4, 11) occurred 4 times
(4, 12) occurred 1 time
(4, 13) occurred 1 time
(4, 14) occurred 1 time
(4, 15) occurred 1 time
(4, 16) occurred 1 time
(4, 17) occurred 1 time
(4, 18) occurred 1 time
(4, 19) occurred 1 time
(5, 2) occurred 10 times
(5, 3) occurred 6 times
(5, 4) occurred 4 times
(5, 6) occurred 5 times
(5, 7) occurred 5 times
(5, 8) occurred 5 times
(5, 10) occurred 4 times
(5, 11) occurred 1 time
(5, 12) occurred 3 times
(5, 13) occurred 3 times
(5, 14) occurred 8 times
(5, 15) occurred 7 times
(5, 16) occurred 5 times
(5, 17) occurred 4 times
(5, 22) occurred 3 times
(5, 23) occurred 8 times
(5, 24) occurred 8 times
(5, 28) occurred 7 times
(5, 29) occurred 7 times
(5, 30) occurred 3 times
(5, 34) occurred 1 time

13.2.3 Output Harvard Graphics

| | | | | | |
|--|---|---|---|--|---|
|  |  |  |  |  |  |
| (1) POLYLINE | (2) DISJOINT POLYLINE | (3) POLYMARKER | (4) TEXT | (5) RESTRICTED TEXT | (6) APPEND TEXT |
|  |  |  |  |  |  |
| (7) POLYGON | (8) POLYGON SET | (9) CELL ARRAY | (11) RECTANGLE | (12) CIRCLE | (13) CIRCULAR ARC 3 POINT |
|  |  |  |  |  |  |
| (14) CIRCULAR ARC 3 POINT CLOSE | (15) CIRCULAR ARC CENTRE | (16) CIRCULAR ARC CENTRE CLOSE | (17) ELLIPSE | (18) ELLIPTICAL ARC | (19) ELLIPTICAL ARC CLOSE |
| <pre> 1: LINE TYPE 2: --- 3: --- 4: --- 5: --- 6: --- 7: --- 8: --- 9: --- 10: --- 11: --- 12: --- 13: --- 14: --- 15: --- 16: --- 17: --- 18: --- 19: --- 20: --- 21: --- 22: --- 23: --- 24: --- 25: --- 26: --- 27: --- 28: --- 29: --- 30: --- 31: --- 32: --- 33: --- 34: --- 35: --- 36: --- 37: --- 38: --- 39: --- 40: --- 41: --- 42: --- 43: --- 44: --- 45: --- 46: --- 47: --- 48: --- 49: --- 50: --- 51: --- 52: --- 53: --- 54: --- 55: --- 56: --- 57: --- 58: --- 59: --- 60: --- 61: --- 62: --- 63: --- 64: --- 65: --- 66: --- 67: --- 68: --- 69: --- 70: --- 71: --- 72: --- 73: --- 74: --- 75: --- 76: --- 77: --- 78: --- 79: --- 80: --- 81: --- 82: --- 83: --- 84: --- 85: --- 86: --- 87: --- 88: --- 89: --- 90: --- 91: --- 92: --- 93: --- 94: --- 95: --- 96: --- 97: --- 98: --- 99: --- 100: --- </pre> | | | | <p>CALS TEST NETWORK MIL-D-28003 Computer Graphics Metafile File: CTN-01Rd, 91-10-03</p> | |

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13.2.4 Output IslandDraw

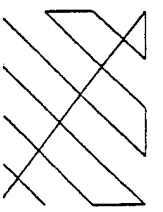
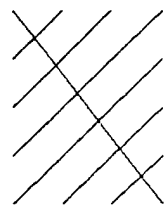
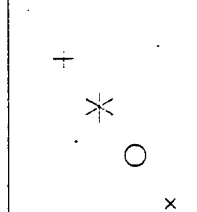

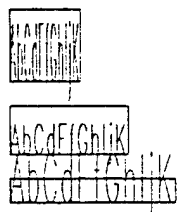
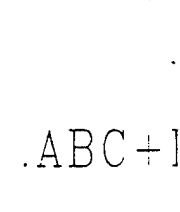
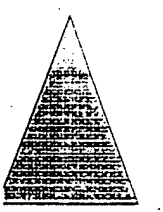
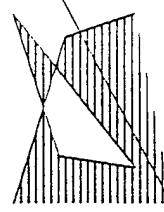
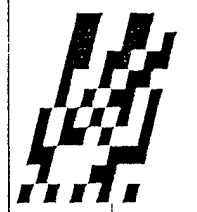
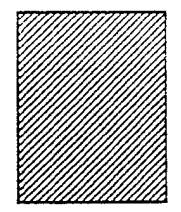
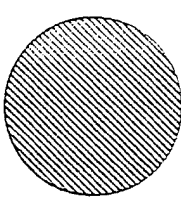
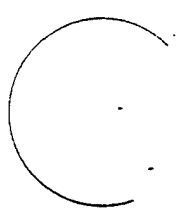
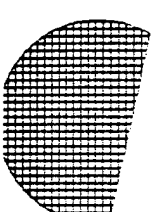
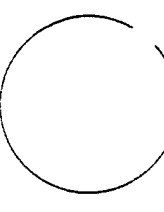
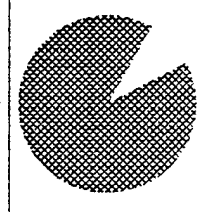
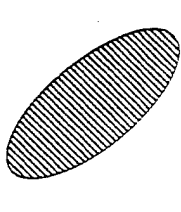

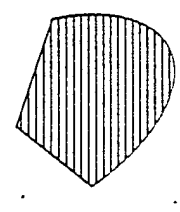
| | | | |
|--|---|---|--|
| <p>(8) POLYGON SET</p> | <p>(9) CELL ARRAY</p> | | |
|  <p>(8) POLYGON SET</p> |  <p>(15) CIRCULAR ARC CENTRE</p> |  <p>(9) CELL ARRAY</p> | |

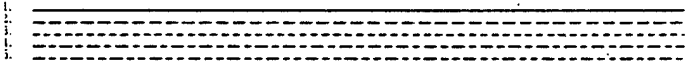
LS TEST NETWORK
LINE TYPE
28003
Graphics Metafile
12-01-10-03

(2) DISK

(3) POLYMARKER

13.2.5 Output cgm2draw/IslandDraw

| | | | | | |
|---|---|---|---|--|---|
|  |  |  |  |  |  |
|) POLYLINE | (2) DISJOINT POLYLINE | (3) POLYMARKER | (4) TEXT | (5) RESTRICTED TEXT | (6) APPEND TEXT |
|  |  |  |  |  |  |
|) POLYGON | (8) POLYGON SET | (9) CELL ARRAY | (11) RECTANGLE | (12) CIRCLE | (13) CIRCULAR ARC 3 PC |
|  |  |  |  |  |  |
| 4) CIRCULAR ARC 3 POINT CLOSE | (15) CIRCULAR ARC CENTRE | (16) CIRCULAR ARC CENTRE CLOSE | (17) ELLIPSE | (18) ELLIPTICAL ARC | (19) ELLIPTICAL ARC CLOS |

LINE TYPE


CALS TEST NETWORK
MIL-D-28003
Computer Graphics Metafile
File: CTN-01Rd, 91-10-03

13.3 File C206

13.3.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:03

Metafile Examined : i:\9316-1\c206.cgm

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

=====
Trace Report
=====

Tracing not selected.

=====
CGM Conformance Violation Report
=====

No Errors Detected

=====
CAL S CGM Profile (MIL-D-28003) Report
=====

No profile discrepancies detected.

=====
Conformance Summary Report
=====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:05

Name of CGM under test: i:\9316-1\c206.cgm
Encoding : Binary

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

BEGIN METAFILE string : "arcs.cgm"
METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 154; string contains: "Picture 1"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested
62 Elements Tested
942 Octets Tested

```
=====
| No Errors Were Detected |
=====
```

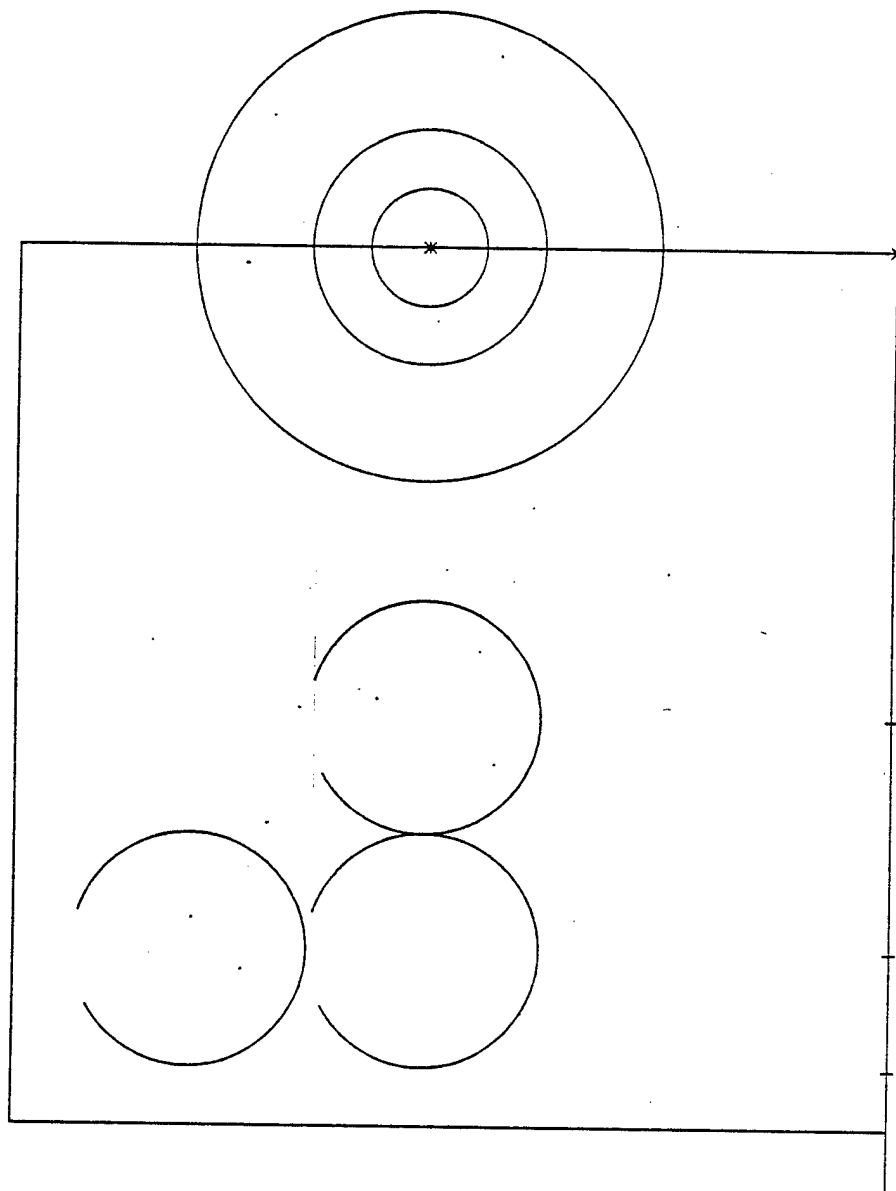
===== End of Conformance Report =====

13.3.2 validcgm Log

Analysis for file c206.cgm using table table
ERROR: illegal in this state (2), std B
ERROR: required precursor (0, 4) not yet seen
(14.1, 0) (3, 6, 2) Clip Indicator OFF
(0, 1) occurred 1 time
(0, 2) occurred 1 time
(0, 3) occurred 1 time
(0, 4) occurred 1 time
(0, 5) occurred 1 time
(1, 1) occurred 1 time
(1, 2) occurred 1 time
(1, 3) occurred 1 time
(1, 4) occurred 1 time
(1, 5) occurred 1 time
(1, 6) occurred 1 time
(1, 7) occurred 1 time
(1, 8) occurred 1 time
(1, 9) occurred 1 time
(1, 10) occurred 1 time
(1, 11) occurred 1 time
(1, 12) occurred 1 time
(1, 13) occurred 1 time
(2, 2) occurred 1 time
(2, 6) occurred 1 time
(2, 7) occurred 1 time
(3, 2) occurred 1 time
(3, 6) occurred 1 time

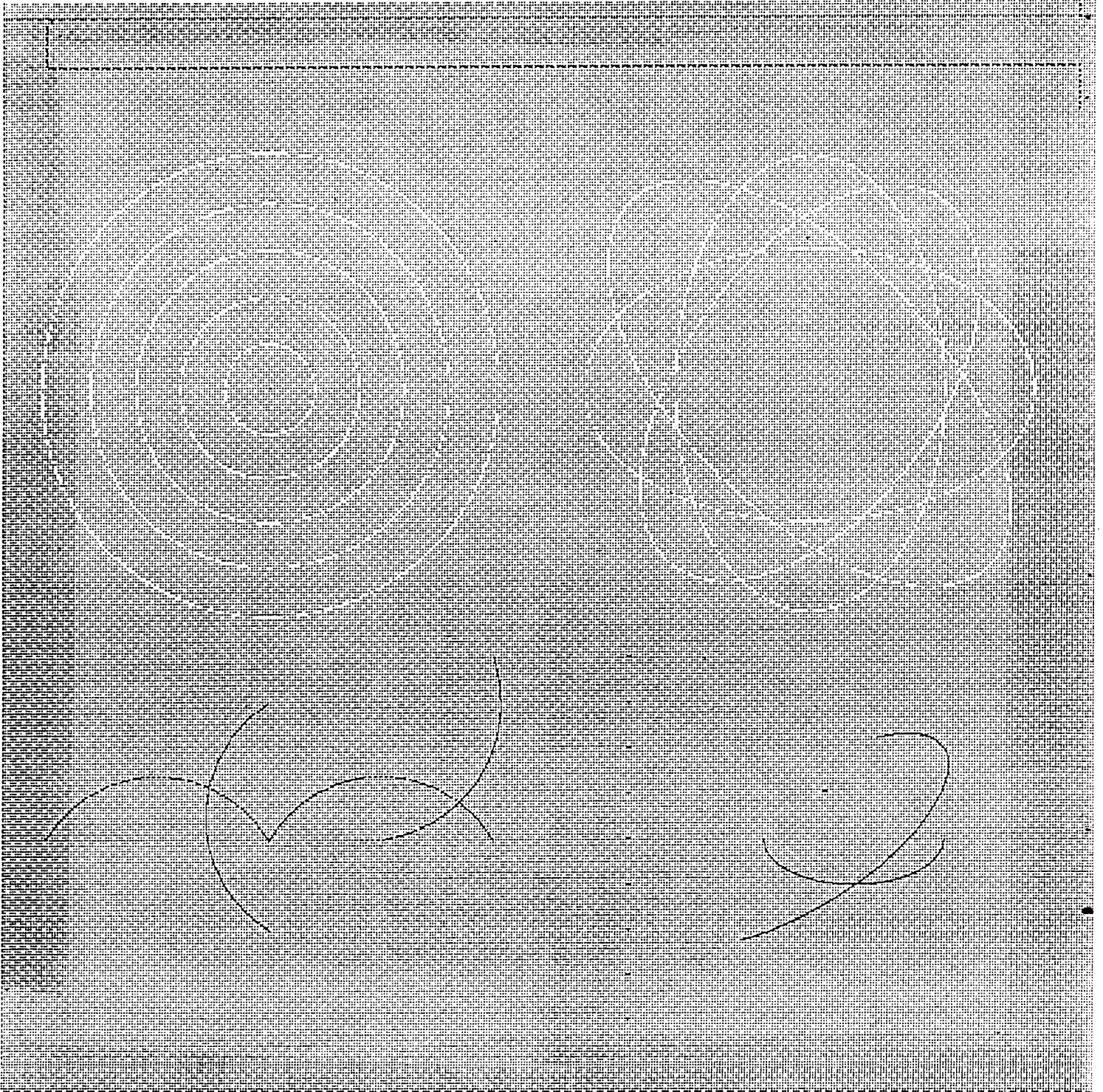
(3, 6) occurred illegally 1 time
(4, 1) occurred 2 times
(4, 3) occurred 3 times
(4, 12) occurred 5 times
(4, 15) occurred 4 times
(4, 17) occurred 4 times
(4, 18) occurred 2 times
(5, 2) occurred 5 times
(5, 3) occurred 5 times
(5, 4) occurred 4 times
(5, 6) occurred 2 times
(5, 7) occurred 1 time
(5, 8) occurred 1 time
(5, 22) occurred 1 time
(5, 23) occurred 1 time
(5, 34) occurred 1 time

13.3.3 Output Harvard Graphics

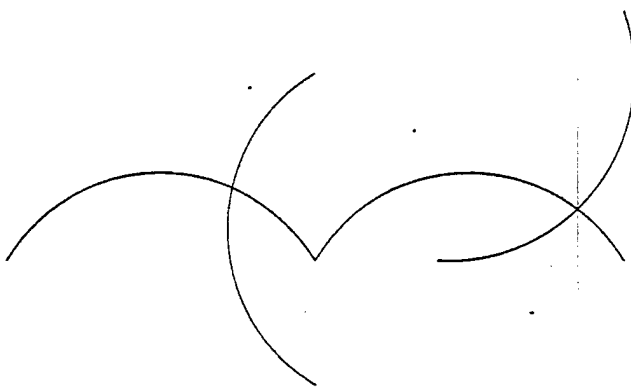
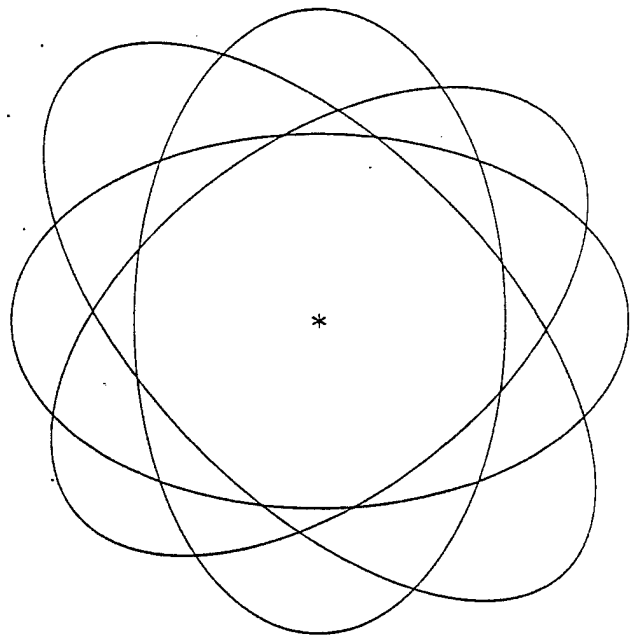
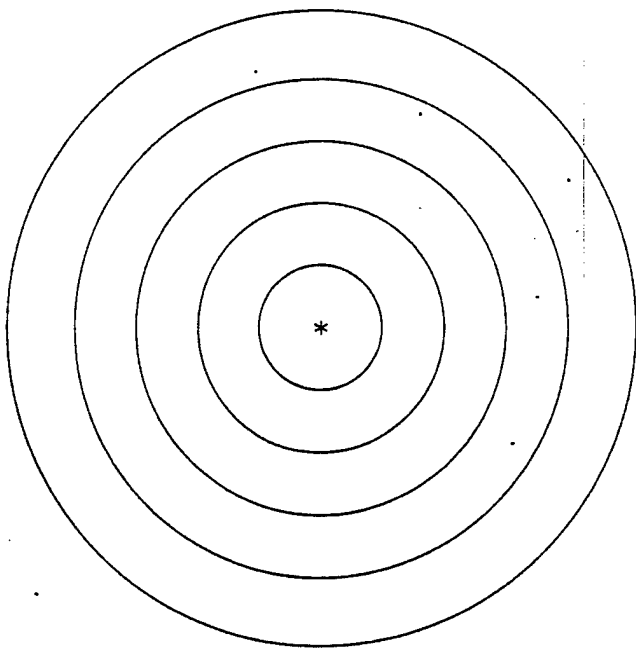


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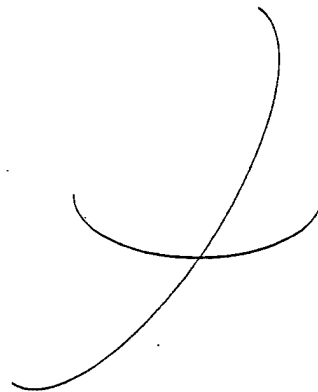
13.3.4 Output IslandDraw



13.3.5 Output cgm2draw/IslandDraw



+
+
+
+
+
+
+
+
+



13.4 File C207

13.4.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:13

Metafile Examined : i:\9316-1\c207.cgm

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

=====
Trace Report
=====

Tracing not selected.

=====
CGM Conformance Violation Report
=====

No Errors Detected

=====
CAL S CGM Profile (MIL-D-28003) Report
=====

No profile discrepancies detected.

=====
Conformance Summary Report
=====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:15

Name of CGM under test: i:\9316-1\c207.cgm
Encoding : Binary

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

BEGIN METAFILE string : "fills.cgm"
METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 154; string contains: "Picture 1"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested
56 Elements Tested
856 Octets Tested

```
=====
| No Errors Were Detected |
=====
```

===== End of Conformance Report =====

13.4.2 validcgm Log

Analysis for file c207.cgm using table table

ERROR: illegal in this state (2), std B

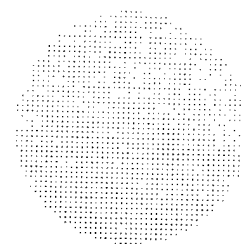
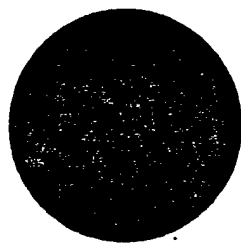
ERROR: required precursor (0, 4) not yet seen

(14.1, 0) (3, 6, 2) Clip Indicator OFF

(0, 1) occurred 1 time
(0, 2) occurred 1 time
(0, 3) occurred 1 time
(0, 4) occurred 1 time
(0, 5) occurred 1 time
(1, 1) occurred 1 time
(1, 2) occurred 1 time
(1, 3) occurred 1 time
(1, 4) occurred 1 time
(1, 5) occurred 1 time
(1, 6) occurred 1 time
(1, 7) occurred 1 time
(1, 8) occurred 1 time
(1, 9) occurred 1 time
(1, 10) occurred 1 time
(1, 11) occurred 1 time
(1, 12) occurred 1 time
(1, 13) occurred 1 time
(2, 2) occurred 1 time
(2, 6) occurred 1 time
(2, 7) occurred 1 time
(3, 2) occurred 1 time
(3, 6) occurred 1 time
(3, 6) occurred illegally 1 time

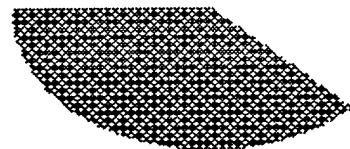
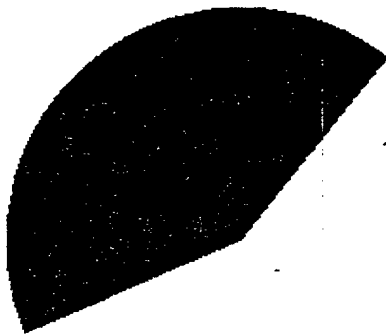
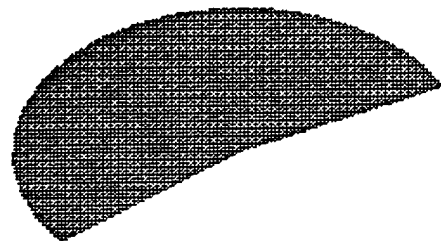
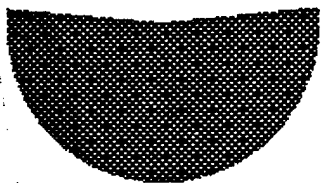
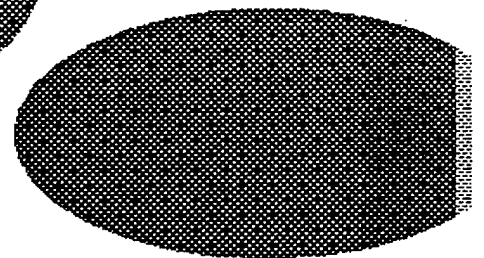
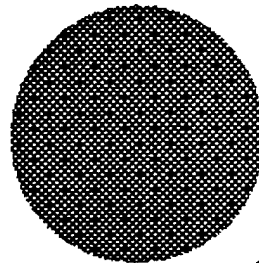
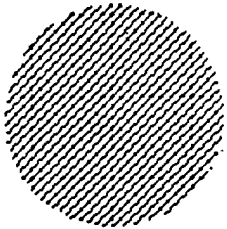
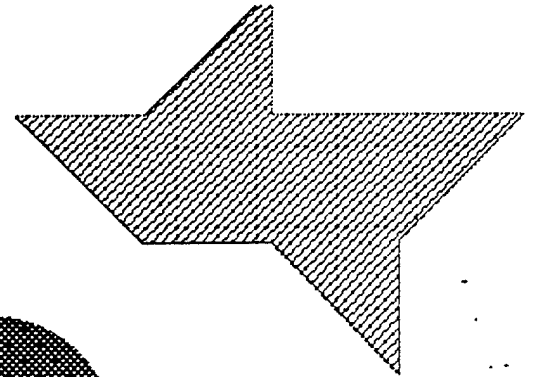
(4, 1) occurred 1 time
(4, 7) occurred 2 times
(4, 12) occurred 2 times
(4, 16) occurred 2 times
(4, 17) occurred 2 times
(4, 19) occurred 2 times
(5, 2) occurred 1 time
(5, 3) occurred 1 time
(5, 4) occurred 1 time
(5, 22) occurred 6 times
(5, 23) occurred 6 times
(5, 24) occurred 1 time
(5, 30) occurred 6 times
(5, 31) occurred 1 time
(5, 34) occurred 1 time

13.4.3 Output Harvard Graphics

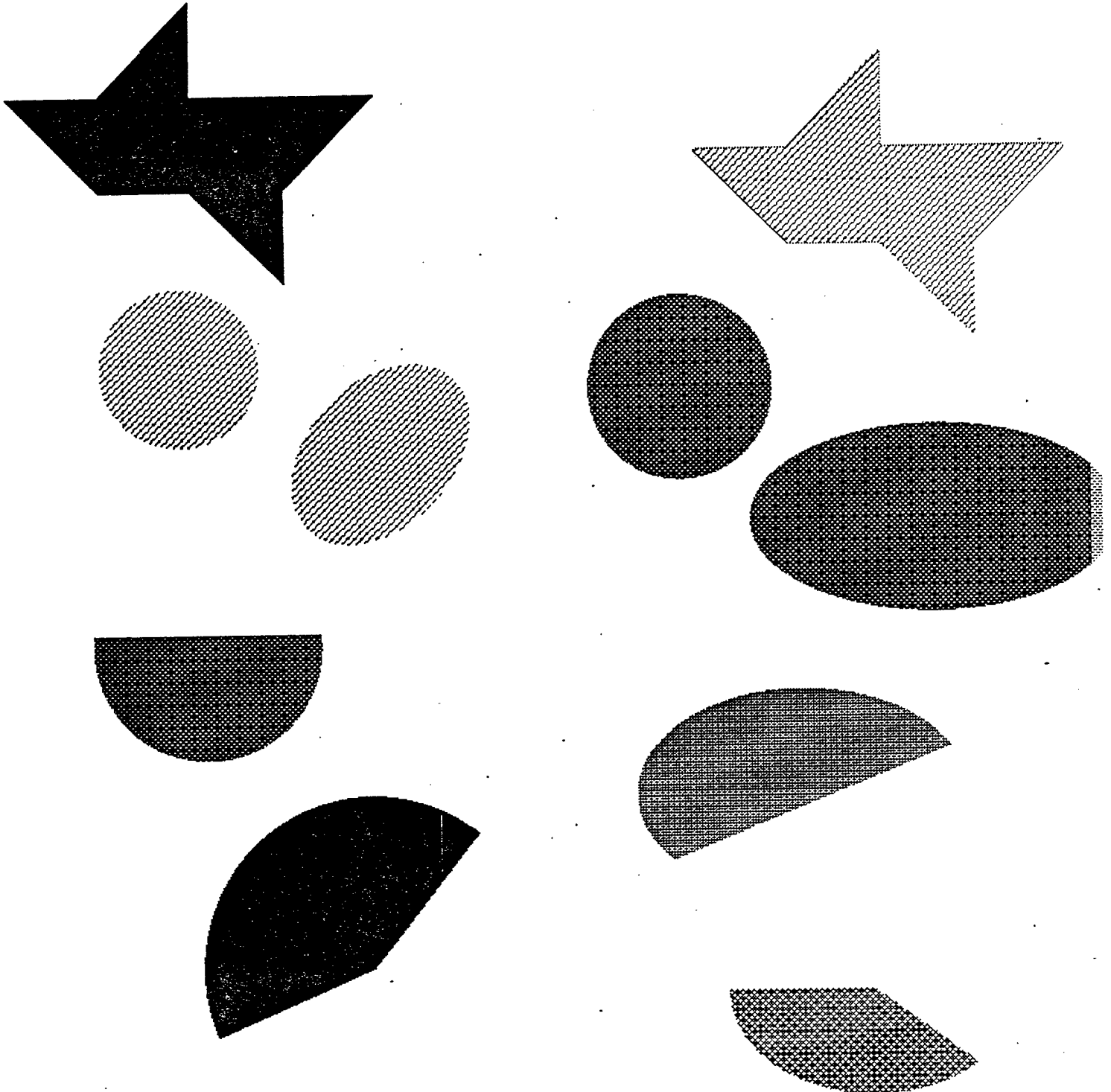


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13.4.4 Output IslandDraw



13.4.5 Output cgm2draw/IslandDraw



13.5 File C208

13.5.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:22

Metafile Examined : i:\9316-1\c208.cgm

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

=====
===== Trace Report =====

Tracing not selected.

=====
===== CGM Conformance Violation Report =====

No Errors Detected

=====
===== CALS CGM Profile (MIL-D-28003) Report =====

No profile discrepancies detected.

=====
===== Conformance Summary Report =====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:24

Name of CGM under test: i:\9316-1\c208.cgm
Encoding : Binary

Pictures Examined : All
Elements Examined : All
Bytes Examined : All

BEGIN METAFILE string : "lines.cgm"
METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 130; string contains: "Picture 1"

Private values encountered in CGM

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested
71 Elements Tested
664 Octets Tested

```
=====
| No Errors Were Detected |
=====
```

===== End of Conformance Report =====

13.5.2 validcgm Log

Analysis for file c208.cgm using table table

ERROR: illegal in this state (2), std B

ERROR: required precursor (0, 4) not yet seen

```
(13.1, 0)      (3, 6, 2)      Clip Indicator OFF
(0, 1) occurred 1 time
(0, 2) occurred 1 time
(0, 3) occurred 1 time
(0, 4) occurred 1 time
(0, 5) occurred 1 time
(1, 1) occurred 1 time
(1, 2) occurred 1 time
(1, 3) occurred 1 time
(1, 4) occurred 1 time
(1, 5) occurred 1 time
(1, 6) occurred 1 time
(1, 7) occurred 1 time
(1, 8) occurred 1 time
(1, 9) occurred 1 time
(1, 10) occurred 1 time
(1, 11) occurred 1 time
(1, 12) occurred 1 time
(2, 2) occurred 1 time
(2, 6) occurred 1 time
(2, 7) occurred 1 time
(3, 2) occurred 1 time
(3, 6) occurred 1 time
```

(3, 6) occurred illegally 1 time
(4, 1) occurred 14 times
(5, 2) occurred 12 times
(5, 3) occurred 12 times
(5, 4) occurred 12 times
(5, 34) occurred 1 time

13.5.3 Output Harvard Graphics

HG305 - C208 - 9316

13.5.4 Output IslandDraw

13.5.5 Output cgm2draw/IslandDraw

13.6 File C209

13.6.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:32

Metafile Examined : i:\9316-1\c209.cgm

Pictures Examined : All

Elements Examined : All

Bytes Examined : All

=====
Trace Report
=====

Tracing not selected.

=====
CGM Conformance Violation Report
=====

No Errors Detected

=====
CAL S CGM Profile (MIL-D-28003) Report
=====

No profile discrepancies detected.

=====
Conformance Summary Report
=====

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer
Copyright 1988-91 CGM Technology Software
Execution Date: 03/04/93 Time: 07:45:33

Name of CGM under test: i:\9316-1\c209.cgm

Encoding : Binary

Pictures Examined : All

Elements Examined : All

Bytes Examined : All

BEGIN METAFILE string : "text.cgm"

METAFILE DESCRIPTION : "NORTHROP B2 ITDS GEF, MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 178; string contains: "Picture 1"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested
67 Elements Tested
896 Octets Tested

```
=====
|      No Errors Were Detected      |
=====
```

===== End of Conformance Report =====

13.6.2 validcgm Log

Analysis for file c209.cgm using table table
ERROR: illegal in this state (2), std B
ERROR: required precursor (0, 4) not yet seen
(14.1, 0) (3, 6, 2) Clip Indicator OFF
(0, 1) occurred 1 time
(0, 2) occurred 1 time
(0, 3) occurred 1 time
(0, 4) occurred 1 time
(0, 5) occurred 1 time
(1, 1) occurred 1 time
(1, 2) occurred 1 time
(1, 3) occurred 1 time
(1, 4) occurred 1 time
(1, 5) occurred 1 time
(1, 6) occurred 1 time
(1, 7) occurred 1 time
(1, 8) occurred 1 time
(1, 9) occurred 1 time
(1, 10) occurred 1 time
(1, 11) occurred 1 time
(1, 12) occurred 1 time
(1, 13) occurred 1 time
(2, 2) occurred 1 time
(2, 6) occurred 1 time
(2, 7) occurred 1 time
(3, 2) occurred 1 time
(3, 6) occurred 1 time
(3, 6) occurred illegally 1 time

(4, 4) occurred 17 times
(5, 10) occurred 3 times
(5, 12) occurred 3 times
(5, 13) occurred 3 times
(5, 14) occurred 2 times
(5, 15) occurred 4 times
(5, 16) occurred 5 times
(5, 17) occurred 4 times
(5, 18) occurred 4 times
(5, 34) occurred 1 time

13.6.3 Output Harvard Graphics

~~RIGHT~~

BOLD 45

RIGHT CENTERED TEXT

TEXT 12
BOLD .15

SPACING 2

EXPANSION FACTOR 1.5

TEXT COLOR RED

HG305 - C209 - 9316

13.6.4 Output IslandDraw

RIGHT TEXT

ABCD
EFG
HIJK
LMOP
QRST
UVW
XYZ

DOWN TEXT TEXT

BOLD 45

TEXT .12

BOLD .15

SPACING 2

EXPANSION FACTOR 1.5

TEXT COLOR RED

13.6.5 Output cgm2draw/IslandDraw

CENTER TEXT

RIGHT TEXT

ABCD
EFG
HIJK
LMOP
QRST
UVW
XYZ

BOLD 45

D
O
W
N

T
E
X
T

P
U

TEXT .12

BOLD .15

S P A C I N G 2

EXPANSION FACTOR 1.5

TEXT COLOR RED
