IPv6/VSE

PDF Generation Supplement Guide

Current Build

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About this Publication

This is the **IPv6/VSE PDF Generation Supplement Guide**. The manual will introduce you to the PDF Generation facility and provide information on using the PDF Generation facility.

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Barnard Software, Inc.

Phone: 1-407-323-4773

Support: bsiopti@bsiopti.com

Sales: bsisales@bsiopti.com

Support is available from 9:00 a.m. through 5:00 p.m. EST, Monday through Friday.

If a TSR (Technical Support Representative) is not available at the time of your call, please leave a message and a TSR will return your call as soon as possible. Please provide the following information: name, company, phone number, product name, product release level, and a short description of the problem.

BSIUsers Announcement List Server

When new releases of IPv6/VSE are available BSI will post an announcement on its BSIUsers announcement list.

To subscribe to the BSIUsers announcement list send an email to this email address

BSIUsers-subscribe@yahoogroups.com

To unsubscribe to the BSIUsers announcement list send an email to this email address

BSIUsers-unsubscribe@yahoogroups.com

Problem Determination

If you have a problem using a IPv6/VSE application always check the SYSLST output for additional information and messages. Most messages are written to SYSLST and not to the VSE/ESA system console.

When contacting BSI for technical support always have the applications JCL/commands, console and SYSLST output available for problem determination. The SYSLST output is very important.

While a IPv6/VSE application is running, you can issue the **AR CANCEL XX,PARTDUMP** command to terminate IPv6/VSE application and dump the partition to SYSLST. Using the VSE/POWER Flush (F) command cancels the IPv6/VSE application partition without a dump.

If the IPv6/VSE application partition stops responding to its console interface, use the **AR DUMP XX** command to obtain a dump of the partition.

TXT2PDF PDF Generation

While the BSTTTPDF program and BSTTPDFC.PROC work well to generate basic PDF documents, the facility is very limited at best. It came to our attention that an Open Source txt2pdf utility had been developed for z/OS, z/VM, Linux and Cygwin (under Windows). Since the effort is REXX based we thought, Why not z/VSE too?

In reviewing the txt2pdf product we discussed the idea with Frank M. Ramaekers Jr. and found he was a contributor to the txt2pdf effort and has already made changes to allow the txt2pdf REXX programs to run under z/VSE. He has also ported the PDF compression and encryption routines used by z/VM txt2pdf users. However, his efforts ported an older version to z/VSE. So, working with Frank, we took the changes he made and incorporated them into the current txt2pdf version (09.107). We also did extensive testing, debugging and worked with Frank to add a few new features.

And, so, txt2pdf Version 15.216 was born.

Our code and this manual have been provided to the original authors of txt2pdf and will hopefully be incorporated into their new downloads.

Copyright Information

Txt2pdf is copyrighted using the GPLv2 license.

Leland Lucius
pdf@homerow.net
http://www.homerow.net

For more information see the web page

http://homerow.net/rexx/txt2pdf/

Documentation

The online documentation for z/VM and z/OS systems is located here ...

http://www.lbdsoftware.com/TXT2PDF-User-Guide.pdf

This manual will deal with z/VSE only and using the REXX based TXT2PDF.PROC on a z/VSE system.

Overview

The TXT2PDF utility is used to convert a text file into a Portable Document Format (PDF) file. It has many options to control the conversion, output appearance, and final presentation. Some of the features include:

```
Annotations
Outline generation
Color control
Several background options
Viewer control
Drawing primitives
BMP and JPEG support
TrueType embedding and subsetting

Encryption
Compression
```

The txt2pdf REXX program is fairly simple in concept.

First, txt2pdf reads a configuration file containing various parameters. The config file is usually read from SYSIPT but can also be read from a z/VSE library member or a SAM file.

Next, txt2pdf reads EBCDIC text from an input source. Options for input include VSE/Power queues, z/VSE Library members or SAM files.

Then, based on processing options, the input data is converted to ASCII and the resulting PDF document to written to an output file. The output file is a SAM file. By default a RECFM VB BLKSZ 31761 output file is used.

Once the PDF output SAM file has been created, it is a very simple process to FTP or email the PDF file to a remote host FTP server or to various user email accounts.

Basic JCL

The basic JCL for generating a PDF document is fairly simple.

```
// OPTION PARTDUMP,NOSYSDUMP
/*
// LIBDEF PROC,SEARCH=bsilib.slib
// LIBDEF PHASE,SEARCH=bsilib.slib
// LIBDEF SOURCE,SEARCH=bsilib.slib
/*
// ASSGN SYS001,DISK,TEMP,VOL=SYSWK2,SHR
// DLBL PDFOUT,'PDF.OUTPUT.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
/*
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
IN LSTH:IDCAMS.00109
OUT PDFOUT,RF=VB,BS=27648,RS=27640
CONFIRM V
ORIENT L
PAPER LET/GREENBAR/HOLED
CC YES
/*
```

Example

```
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
T2P007I: TXT2PDF - Text to PDF Conversion Utility v15.216
T2P007I: Copyright (C) 2000 - 2015 Leland Lucius
T2P008I: Input File:       LSTH:IDCAMS.00091
T2P009I: Output File:      PDFOUT,RF=VB,BS=27648,RS=27640
T2P111I: Units:            INCHES
T2P010I: Paper Width:      8.5
T2P011I: Paper Height:     11.0
T2P012I: Paper Type:       GREENBAR
T2P013I: Paper Style:      HOLED
T2P014I: Orientation:      Landscape
T2P016I: Left Margin:      0.5
T2P017I: Right Margin:     0.5
T2P018I: Top Margin:       0.5
T2P019I: Bottom Margin:    0.5
T2P022I: Font name:        Courier
T2P023I: Font size:        9
T2P024I: Zoom percent:     100
T2P025I: Lines per inch:   8
T2P026I: Foreground color: Black
T2P027I: Background color: White
T2P028I: Carriage Control: YES
T2P113I: Config file(s):   *
T2P033V: PageLeft:         0
T2P034V: PageRight:        792
T2P035V: PageTop:          612
T2P036V: PageBottom:       0
T2P037V: PageWidth:        792
T2P038V: PageHeight:       612
T2P039V: CropLeft:         18
T2P040V: CropRight:        774
T2P041V: CropTop:          612
T2P042V: CropBottom:       0
T2P043V: CropWidth:        756
T2P044V: CropHeight:       612
T2P045V: TextLeft:         54.0
T2P046V: TextRight:        738.0
T2P047V: TextTop:          576.0
T2P048V: TextBottom:       36.0
T2P049V: TextWidth:        684.0
T2P050V: TextHeight:       540.0
T2P051V: Leading:          9
T2P052V: Lines Per Page:   60
T2P053V: Bar Foreground:   0.95 1.0 0.95
T2P054V: Bar Background:   0.85 0.9 0.85
T2P077I:
T2P077I: Conversion completed successfully
T2P091V: Total output bytes: 243380
T2P091V:             pages: 66
1S55I  LAST RETURN CODE WAS 0000
```

Partition Size

We recommend a 32MB partition be used for the txt2pdf REXX program. This partition size will be adequate for most, if not all, PDF generation needs.

However, when compression and encryption are used, the partition size requirement can go up.

Partition Priority

The txt2pdf program is a z/VSE REXX application. It is useful to remember that in z/VSE REXX programs are interpreted and not compiled. The interpretation process will use more CPU than a compiled application.

In addition, if compression and/or encryption are used these options can dramatically increase CPU usage during the PDF generation process.

We recommend that txt2pdf REXX process run in a low priority batch partition where it will not interfere with other batch or online applications.

In addition, when compression is used, only COMPRESS 0 (no compression, the default) or COMPRESS 1 (the lowest level of compression) be used. Using COMPRESS levels 2-9 require ever higher CPU usage with little, if any, benefits.

FTP of the PDF Output

The BSTTFTPC batch FTP JCL is also quite simple. Basically, it is just a BINARY transfer of the SAM file output by the txt2pdf REXX process.

```
// OPTION PARTDUMP,NOSYSDUMP
/*
// LIBDEF PHASE,SEARCH=bsilib.slib
// LIBDEF SOURCE,SEARCH=bsilib.slib
/*
// ASSGN SYS001,DISK,TEMP,VOL=SYSWK2,SHR
// DLBL PDFOUT,'PDF.OUTPUT.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
/*
// EXEC BSTTFTPC,SIZE=BSTTFTPC
ID nn
OPEN ip_address
*
USER ...
PASS ...
CWD directory
*
INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
TYPE I
STOR file.name.pdf
*
QUIT
/*
```

For more information about using the BSTTFTPC batch FTP client application see the IPv6/VSE IPv4 Users Guide.

Example

```
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
*   STEP 1
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
T2P007I: TXT2PDF - Text to PDF Conversion Utility v15.216
T2P007I: Copyright (C) 2000 - 2015 Leland Lucius
T2P008I: Input File:       LSTH:IDCAMS.00091
T2P009I: Output File:      PDFOUT,RF=VB,BS=27648,RS=27640
T2P111I: Units:            INCHES
T2P010I: Paper Width:      8.5
T2P011I: Paper Height:     11.0
T2P012I: Paper Type:       GREENBAR
T2P013I: Paper Style:      HOLED
T2P014I: Orientation:      Landscape
T2P016I: Left Margin:      0.5
T2P017I: Right Margin:     0.5
T2P018I: Top Margin:       0.5
T2P019I: Bottom Margin:    0.5
T2P022I: Font name:        Courier
T2P023I: Font size:        9
T2P024I: Zoom percent:     100
T2P025I: Lines per inch:   8
T2P026I: Foreground color: Black
T2P027I: Background color: White
T2P028I: Carriage Control: YES
T2P113I: Config file(s):   *
T2P033V: PageLeft:         0
T2P034V: PageRight:        792
T2P035V: PageTop:          612
T2P036V: PageBottom:       0
T2P037V: PageWidth:        792
T2P038V: PageHeight:       612
T2P039V: CropLeft:         18
T2P040V: CropRight:        774
T2P041V: CropTop:          612
T2P042V: CropBottom:       0
T2P043V: CropWidth:        756
T2P044V: CropHeight:       612
T2P045V: TextLeft:         54.0
T2P046V: TextRight:        738.0
T2P047V: TextTop:          576.0
T2P048V: TextBottom:       36.0
T2P049V: TextWidth:        684.0
T2P050V: TextHeight:       540.0
T2P051V: Leading:          9
T2P052V: Lines Per Page:   60
T2P053V: Bar Foreground:   0.95 1.0 0.95
T2P054V: Bar Background:   0.85 0.9 0.85
T2P077I:
T2P077I: Conversion completed successfully
T2P091V: Total output bytes: 243380
T2P091V:              pages: 66
1S55I  LAST RETURN CODE WAS 0000
EOP TXT2PDF
*   STEP 2
// EXEC BSTTFTPC,SIZE=BSTTFTPC
1S54I  PHASE BSTTFTPC IS TO BE FETCHED FROM BSILIB.TTDEV
05-Aug-2015 14:41:21 002F BSTT000I INITIATED  BSTTFTPC Build253 09/05/12 08.43
05-Aug-2015 14:41:21 002F BSTT003I COPYRIGHT (C) 1998-2015 BARNARD SOFTWARE, INC.
05-Aug-2015 14:41:21 002F BSTT004I CB=TTLA A=0056C000 L=000013FC
05-Aug-2015 14:41:21 002F BSTT019I VSE 9.10 MODE 31-BIT
05-Aug-2015 14:41:21 002F BSTT704I
05-Aug-2015 14:41:21 002F BSTT704I ID 00
05-Aug-2015 14:41:21 002F BSTT704I OPEN 192.168.1.60
05-Aug-2015 14:41:21 002F BSTT704I USER jcb
05-Aug-2015 14:41:21 002F BSTT704I PASS
```

```
05-Aug-2015 14:41:21 002F BSTT704I CWD /tmp
05-Aug-2015 14:41:21 002F BSTT704I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
05-Aug-2015 14:41:21 002F BSTT704I TYPE I
05-Aug-2015 14:41:21 002F BSTT704I STOR txt2pdfb.pdf
05-Aug-2015 14:41:21 002F BSTT704I QUIT
05-Aug-2015 14:41:21 002F BSTT704I
05-Aug-2015 14:41:21 002F BSTT004I CB=TTST A=0056E000 L=00010860
05-Aug-2015 14:41:21 01DF BSTT000I INITIATED  BSTTXFCC Build255 04/23/14 17.03
05-Aug-2015 14:41:21 01DF BSTT020I CPU NATIVE  ID=012345 MODEL=1090 PART=Z1
05-Aug-2015 14:41:21 01DF BSTT027I LICENSED TO BARNARD SOFTWARE, INC.
05-Aug-2015 14:41:21 01DF BSTT028I IPV6/VSE         ENABLED
05-Aug-2015 14:41:21 01DF BSTT694I TCP/IP ID SET TO 00   (BSI IPV4)
05-Aug-2015 14:41:21 01DF BSTT701I TCP/IP-TOOLS BUILD  256
05-Aug-2015 14:41:21 01DF BSTT695I CONNECTING TO PORT    21 IP 192.168.1.60
05-Aug-2015 14:41:21 01DF BSTT018I PORT    21 OPENED RC=    0
05-Aug-2015 14:41:21 01DF BSTT033I 220 Welcome to the z40-b FTP Server
05-Aug-2015 14:41:21 01DF BSTT010I USER jcb
05-Aug-2015 14:41:21 01DF BSTT033I 331 Please specify the password.
05-Aug-2015 14:41:21 01DF BSTT010I PASS
05-Aug-2015 14:41:21 01DF BSTT033I 230 Login successful.
05-Aug-2015 14:41:21 01DF BSTT010I CWD /tmp
05-Aug-2015 14:41:21 01DF BSTT033I 250 Directory successfully changed.
05-Aug-2015 14:41:21 01DF BSTT661I PDFOUT   OPENED INPUT  RC=00000000 RS=00000000
05-Aug-2015 14:41:21 01DF BSTT010I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
05-Aug-2015 14:41:21 01DF BSTT010I TYPE I
05-Aug-2015 14:41:21 01DF BSTT033I 200 Switching to Binary mode.
05-Aug-2015 14:41:21 01DF BSTT034I TYPE SET TO I
05-Aug-2015 14:41:21 01DF BSTT010I STOR txt2pdfb.pdf
05-Aug-2015 14:41:21 01DF BSTT010I PASV
05-Aug-2015 14:41:21 01DF BSTT033I 227 Entering Passive Mode (192,168,1,60,117,112).
05-Aug-2015 14:41:21 01DF BSTT695I CONNECTING TO PORT 30064 IP 192.168.1.60
05-Aug-2015 14:41:21 01DF BSTT010I STOR txt2pdfb.pdf
05-Aug-2015 14:41:21 01DF BSTT033I 150 Ok to send data.
05-Aug-2015 14:41:21 01DF BSTT018I PORT    20 OPENED RC=    0
05-Aug-2015 14:41:21 01DF BSTT022I PDFOUT   CLOSED INPUT  RC=00000000
05-Aug-2015 14:41:21 01DF BSTT047I       1517 RECORDS PROCESSED
05-Aug-2015 14:41:21 01DF BSTT018I PORT    20 CLOSED RC=    0
05-Aug-2015 14:41:21 01DF BSTT023I   237K BYTES IN  0.062 SECS. RATE  3925K/SEC 1517RECS
05-Aug-2015 14:41:21 01DF BSTT668I BYTES H= 000000000003B6B4 DH=   DL=         243380
05-Aug-2015 14:41:21 01DF BSTT048I TCP  I/O WAIT TIME 0.041 SECONDS. RATE 5936K
05-Aug-2015 14:41:21 01DF BSTT033I 226 Transfer complete.
05-Aug-2015 14:41:21 01DF BSTT010I QUIT
05-Aug-2015 14:41:21 01DF BSTT033I 221 Goodbye.
05-Aug-2015 14:41:21 01DF BSTT018I PORT    21 CLOSED RC=    0
05-Aug-2015 14:41:21 01DF BSTT001I TERMINATED BSTTXFCC
05-Aug-2015 14:41:21 002F BSTT001I TERMINATED BSTTFTPC
1S55I  LAST RETURN CODE WAS 0000
```

Email of the PDF Output

The BSTTMTPC batch EMAIL JCL is simple too.

```
// OPTION PARTDUMP,NOSYSDUMP
/*
// LIBDEF PHASE,SEARCH=bsilib.slib
// LIBDEF SOURCE,SEARCH=bsilib.slib
/*
// ASSGN SYS001,DISK,TEMP,VOL=SYSWK2,SHR
// DLBL PDFOUT,'PDF.OUTPUT.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
/*
// EXEC BSTTMTPC,SIZE=BSTTMTPC
ID nn
OPEN ip_address
*
HELO bsiopti.com
MAIL From: bsiopti@bsiopti.com
RCPT To: jeff@bsiopti.com
SUBJ Subject: Test Email
ORGA Organization: Barnard Software, Inc.
*
DATA
*
INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
TYPE I
INCLUDE file.name.pdf
*
QUIT
/* End of BSTTMTPC Commands
Hello,

The attached file contains the information you requested.

Regards,
The IT Staff
/* End of email text
```

For more information about using the BSTTMTPC batch EMAIL client application see the IPv6/VSE IPv4 Users Guide.

Example

```
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,15015,10000
*  STEP 1
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
T2P007I: TXT2PDF - Text to PDF Conversion Utility v15.216
T2P007I: Copyright (C) 2000 - 2015 Leland Lucius
T2P008I: Input File:       LSTE:LISTC.00924
T2P009I: Output File:      PDFOUT,RF=VB,BS=27648,RS=27640
T2P111I: Units:            INCHES
T2P010I: Paper Width:      8.5
T2P011I: Paper Height:     11.0
T2P012I: Paper Type:       GREENBAR
T2P013I: Paper Style:      HOLED
T2P014I: Orientation:      Landscape
T2P016I: Left Margin:      0.5
T2P017I: Right Margin:     0.5
T2P018I: Top Margin:       0.5
T2P019I: Bottom Margin:    0.5
T2P022I: Font name:        Courier
T2P023I: Font size:        9
T2P024I: Zoom percent:     100
T2P025I: Lines per inch:   8
T2P026I: Foreground color: Black
T2P027I: Background color: White
T2P028I: Carriage Control: YES
T2P113I: Config file(s):   *
T2P033V: PageLeft:         0
T2P034V: PageRight:        792
T2P035V: PageTop:          612
T2P036V: PageBottom:       0
T2P037V: PageWidth:        792
T2P038V: PageHeight:       612
T2P039V: CropLeft:         18
T2P040V: CropRight:        774
T2P041V: CropTop:          612
T2P042V: CropBottom:       0
T2P043V: CropWidth:        756
T2P044V: CropHeight:       612
T2P045V: TextLeft:         54.0
T2P046V: TextRight:        738.0
T2P047V: TextTop:          576.0
T2P048V: TextBottom:       36.0
T2P049V: TextWidth:        684.0
T2P050V: TextHeight:       540.0
T2P051V: Leading:          9
T2P052V: Lines Per Page:   60
T2P053V: Bar Foreground:   0.95 1.0 0.95
T2P054V: Bar Background:   0.85 0.9 0.85
T2P077I:
T2P077I: Conversion completed successfully
T2P091V: Total output bytes: 272628
T2P091V:             pages: 73
1S55I  LAST RETURN CODE WAS 0000
EOP TXT2PDF
*  STEP 2
// EXEC BSTTMTPC,SIZE=BSTTMTPC
1S54I  PHASE BSTTMTPC IS TO BE FETCHED FROM BSILIB.TTDEV
05-Aug-2015 14:50:45 003B BSTT000I INITIATED  BSTTMTPC Build256 07/24/15 11.01    EP
05-Aug-2015 14:50:45 003B BSTT003I COPYRIGHT (C) 1998-2015 BARNARD SOFTWARE, INC.
05-Aug-2015 14:50:45 003B BSTT004I CB=TTLA A=0056B000 L=000013FC
05-Aug-2015 14:50:45 003B BSTT019I VSE 9.10 MODE 31-BIT
05-Aug-2015 14:50:45 003B BSTT704I
05-Aug-2015 14:50:45 003B BSTT704I ID 00
05-Aug-2015 14:50:45 003B BSTT704I OPEN DINOMASTERS.COM 2525
```

```
05-Aug-2015 14:50:45 003B BSTT704I EHLO bsiopti.com
05-Aug-2015 14:50:45 003B BSTT704I AUTH LOGIN
05-Aug-2015 14:50:45 003B BSTT704I MAIL From: bsiopti@bsiopti.com
05-Aug-2015 14:50:45 003B BSTT704I RCPT To: jeff@bsiopti.com
05-Aug-2015 14:50:45 003B BSTT704I SUBJ Subject: txt2pdf PDF Generation Text
05-Aug-2015 14:50:45 003B BSTT704I ORGA Organization: Barnard Software, Inc.
05-Aug-2015 14:50:45 003B BSTT704I DATA
05-Aug-2015 14:50:45 003B BSTT704I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
05-Aug-2015 14:50:45 003B BSTT704I TYPE I
05-Aug-2015 14:50:45 003B BSTT704I INCLUDE txt2pdfc.pdf
05-Aug-2015 14:50:45 003B BSTT704I QUIT
05-Aug-2015 14:50:45 003B BSTT704I
05-Aug-2015 14:50:45 003B BSTT004I CB=TTST A=0056CF80 L=00010860
05-Aug-2015 14:50:46 01B7 BSTT000I INITIATED  BSTTXMCC Build253 11/27/12 11.33
05-Aug-2015 14:50:46 01B7 BSTT020I CPU NATIVE  ID=212345 MODEL=1090 PART=Z3
05-Aug-2015 14:50:46 01B7 BSTT027I LICENSED TO BARNARD SOFTWARE, INC.
05-Aug-2015 14:50:46 01B7 BSTT028I IPV6/VSE         ENABLED
05-Aug-2015 14:50:46 01B7 BSTT694I TCP/IP ID SET TO 00   (BSI IPV4)
05-Aug-2015 14:50:46 01B7 BSTT701I TCP/IP-TOOLS BUILD  256
05-Aug-2015 14:50:46 01B7 BSTT695I CONNECTING TO PORT  2525 IP 206.130.104.55
05-Aug-2015 14:50:47 01B7 BSTT018I PORT  2525 OPENED RC=     0
05-Aug-2015 14:50:47 01B7 BSTT033I 220 dinomasters.com ESMTP Sendmail 8.13.1/8.13.1;
Wed, 5 Aug 2015 12:01:02 -0600
05-Aug-2015 14:50:47 01B7 BSTT010I EHLO bsiopti.com
05-Aug-2015 14:50:47 01B7 BSTT033I 250-dinomasters.com Hello 72-238-130-67.res.bhn.net
Ý72.238.130.67¨, pleased to meet
05-Aug-2015 14:50:47 01B7 BSTT033I 250-ENHANCEDSTATUSCODES
05-Aug-2015 14:50:47 01B7 BSTT033I 250-PIPELINING
05-Aug-2015 14:50:47 01B7 BSTT033I 250-8BITMIME
05-Aug-2015 14:50:47 01B7 BSTT033I 250-SIZE
05-Aug-2015 14:50:47 01B7 BSTT033I 250-DSN
05-Aug-2015 14:50:47 01B7 BSTT033I 250-AUTH PLAIN LOGIN
05-Aug-2015 14:50:47 01B7 BSTT033I 250-DELIVERBY
05-Aug-2015 14:50:47 01B7 BSTT033I 250 HELP
05-Aug-2015 14:50:47 01B7 BSTT010I AUTH LOGIN
05-Aug-2015 14:50:47 01B7 BSTT033I 334 VXNlcm5hbWU6
05-Aug-2015 14:50:47 01B7 BSTT010I YnNpMTk1Nw==
05-Aug-2015 14:50:47 01B7 BSTT033I 334 UGFzc3dvcmQ6
05-Aug-2015 14:50:47 01B7 BSTT010I emVid2Vz
05-Aug-2015 14:50:47 01B7 BSTT033I 235 2.0.0 OK Authenticated
05-Aug-2015 14:50:47 01B7 BSTT010I MAIL From: bsiopti@bsiopti.com
05-Aug-2015 14:50:47 01B7 BSTT033I 250 2.1.0 bsiopti@bsiopti.com... Sender ok
05-Aug-2015 14:50:47 01B7 BSTT010I RCPT To: jeff@bsiopti.com
05-Aug-2015 14:50:47 01B7 BSTT033I 250 2.1.5 jeff@bsiopti.com... Recipient ok
05-Aug-2015 14:50:47 01B7 BSTT010I SUBJ Subject: txt2pdf PDF Generation Text
05-Aug-2015 14:50:47 01B7 BSTT010I ORGA Organization: Barnard Software, Inc.
05-Aug-2015 14:50:47 01B7 BSTT010I DATA
05-Aug-2015 14:50:47 01B7 BSTT033I 354 Enter mail, end with "." on a line by itself
05-Aug-2015 14:50:47 01B7 BSTT661I PDFOUT   OPENED INPUT  RC=00000000 RS=00000000
05-Aug-2015 14:50:47 01B7 BSTT010I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
05-Aug-2015 14:50:47 01B7 BSTT034I TYPE SET TO I
05-Aug-2015 14:50:47 01B7 BSTT010I INCLUDE txt2pdfc.pdf
05-Aug-2015 14:50:49 01B7 BSTT022I PDFOUT   CLOSED INPUT  RC=00000000
05-Aug-2015 14:50:49 01B7 BSTT047I      1671 RECORDS PROCESSED
05-Aug-2015 14:50:49 01B7 BSTT033I 250 2.0.0 t75I127L021411 Message accepted for
delivery
05-Aug-2015 14:50:49 01B7 BSTT010I QUIT
05-Aug-2015 14:50:49 01B7 BSTT033I 221 2.0.0 dinomasters.com closing connection
05-Aug-2015 14:50:49 01B7 BSTT018I PORT  2525 CLOSED RC=     0
05-Aug-2015 14:50:49 01B7 BSTT001I TERMINATED BSTTXMCC
05-Aug-2015 14:50:49 003B BSTT001I TERMINATED BSTTMTPC
1S55I  LAST RETURN CODE WAS 0000
```

Execution Options

There are 3 configuration options of primary interest to z/VSE users.

CONFIG, IN and OUT.

The txt2pdf REXX application reads parameters from the // EXEC PARM= area. Since the size of the PARM= area on the z/VSE // EXEC card is limited, it is best to only have the CONFIG parameter specified in the PARM= area.

```
// EXEC REXX=TXT2PDF,PARM='...      '
```

CONFIG

The CONFIG keyword control the location of the configuration parameters.

Any line in the config file with an asterisk (*) in column 1 is treated as a comment.

```
CONFIG <file>

CONFIG *
CONFIG LIBR:lib.slib.member.type
COMFIG dlbl,RF=xx,BS=nn,RS=mm

// EXEC REXX=TXT2PDF,PARM='CONFIG *'
// EXEC REXX=TXT2PDF,PARM='CONFIG LIBR:PRD2.CONFIG.REPORT1.CONFIG'
// EXEC REXX=TXT2PDF,PARM='CONFIG PDFPARM,RF=FB,BS=800,RS=80'
```

CONFIG * indicates configuration parameters are to be read from SYSIPT. This is the usual method.

CONFIG LIBR:lib.slib.member.type indicates configuration parameters are to be read from a library member.

CONFIG dlbl,options indicates configuration parameters are to be read from a SAM file. The options available here are RF= (Record Format), BS=blocksize and RS=recordsize.

Valid RF= values are F, FB, V, VB

IMAGE

The IMAGE keyword defines the location of graphic data.

Only z/VSE library members are supported here. The graphic file can be a JPEG or BMP file. The .JPG or .BMP PC file must be transferred BINARY from the PC to a Fixed mode library member. String mode library members are not supported.

```
IMAGE LOAD/name/lib.slib.member.type
```

See the TXT2PDF User Reference Guide for more information about the IMAGE command.

IN

The IN keyword defines the location of the input data.

```
IN <file>

IN quex:jobname.jobnumber.segment
IN LIBR:lib.slib.member.type
IN dlbl,RF=xx,BS=nn,RS=mm

// EXEC REXX=TXT2PDF,PARM='IN LSTH:IDCAMS,5284'
// EXEC REXX=TXT2PDF,PARM='IN LIBR:PRD2.CONFIG.REPORT1.TXT'
// EXEC REXX=TXT2PDF,PARM='IN PDFIN,RF=FB,BS=13300,RS=133'
```

IN quex:*jobname.jobnumber.segment* indicates input data is be to be read from VSE/Power. The que value is RDR, LST, PUN. The letter after the que (x) indicates the class. The queue jobname is required. If the jobnumber is not specified, the first member with the specified name is used. If the segment number is not specified, the 1st segment is read. If the segment is specified as an asterisk (*) all segments are read in sequence.

IN LIBR:lib.slib.member.file indicates input data is to be read from a library member.

IN dlbl,options indicates input data is to be read from a SAM file. The options available here are RF= (Record Format), BS=blocksize and RS=recordsize.

Valid RF= values are F, FB, V, VB

OUT

The OUT keyword defines the location of the output PDF data.

```
OUT <file>

OUT dlbl,RF=xx,BS=nn,RS=mm

// EXEC REXX=TXT2PDF,PARM='OUT PDFPARM,RF=VB,BS=27648'
```

The only option for output of the ASCII PDF document is a SAM file.

OUT dlbl,options indicates input data is to be read from a SAM file. The options available here are RF= (Record Format), BS=blocksize and RS=recordsize.

Valid RF= values are F, FB, V, VB

The recommended OUT file specification is

OUT PDFOUT,RF=VB,BS=27648,RS=27640

Which will use a Variable Blocked file with 27K blocks resulting in 1/2 track blocks on a 3390 DASD device.

PDF Options

The txt2pdf options are well documented in the TXT2PDF User Reference Guide.

A copy of this manual (in PDF format, of course) is part of the IPv6/VSE download. The file is named IP-IPv6_VSE-TXT2PDF_UserReferenceGuide.pdf

Please refer to this manual for any PDF generation options and example of their usage.

Examples

Compressed PDF Documents

Tst2pdf can create compressed PDF documents. Enabling compression will take more CPU but the resulting document will be (about) 1/3 the size of the uncompressed document.

The COMPRESS 0 setting in the config file disables compression. Use the COMPRESS 1 setting to enable compression. We do not recommend using values greater than 1. Values of 2-9 are valid but use far more CPU with little benefit.

```
// LIBDEF *,SEARCH=(BSILIB.TTDEV)
// LIBDEF PROC,SEARCH=(BSILIB.TTDEV)
/*
// ASSGN SYS001,DISK,TEMP,VOL=SYSWK2,SHR
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
/*
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
IN LSTH:IDCAMS.00357
*  LSTH:IDCAMS.00091
OUT PDFOUT,RF=VB,BS=27648
CONFIRM V
ORIENT L
PAPER LET/GREENBAR/HOLED
PAGE T
MAG FI
COMPRESS 1
CC YES
/*
```

Sample Output

```
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
T2P007I: TXT2PDF - Text to PDF Conversion Utility v15.216
T2P007I: Copyright (C) 2000 - 2015 Leland Lucius
T2P008I: Input File:        LSTH:IDCAMS.00357
T2P009I: Output File:       PDFOUT,RF=VB,BS=27648
T2P111I: Units:             INCHES
T2P124I: Compression:       1
T2P010I: Paper Width:       8.5
T2P011I: Paper Height:      11.0
T2P012I: Paper Type:        GREENBAR
T2P013I: Paper Style:       HOLED
T2P014I: Orientation:       Landscape
T2P016I: Left Margin:       0.5
T2P017I: Right Margin:      0.5
T2P018I: Top Margin:        0.5
T2P019I: Bottom Margin:     0.5
T2P022I: Font name:         Courier
T2P023I: Font size:         9
T2P024I: Zoom percent:      100
T2P025I: Lines per inch:    8
T2P026I: Foreground color:  Black
T2P027I: Background color:  White
T2P028I: Carriage Control:  YES
T2P113I: Config file(s):    *
T2P033V: PageLeft:          0
T2P034V: PageRight:         792
T2P035V: PageTop:           612
T2P036V: PageBottom:        0
T2P037V: PageWidth:         792
T2P038V: PageHeight:        612
T2P039V: CropLeft:          18
T2P040V: CropRight:         774
T2P041V: CropTop:           612
T2P042V: CropBottom:        0
T2P043V: CropWidth:         756
T2P044V: CropHeight:        612
T2P045V: TextLeft:          54.0
T2P046V: TextRight:         738.0
T2P047V: TextTop:           576.0
T2P048V: TextBottom:        36.0
T2P049V: TextWidth:         684.0
T2P050V: TextHeight:        540.0
T2P051V: Leading:           9
T2P052V: Lines Per Page:    60
T2P053V: Bar Foreground:    0.95 1.0 0.95
T2P054V: Bar Background:    0.85 0.9 0.85
T2P077I:
T2P077I: Conversion completed successfully
T2P091V: Total output bytes: 77149 (67% reduction)
T2P091V:              pages: 66
```

Table of Contents

It is often nice to have a Table of Contents for a document. This example uses an IDCAMS LISTC command output in the VSE/Power LST queue as input to create a nice PDF report with a Table of Contents showing Cluster names. The TOC is sorted to be more useful.

```
// ASSGN SYS001,DISK,TEMP,VOL=SYSWK2,SHR
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
/*
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
IN LSTH:IDCAMS.357
OUT PDFOUT,RF=VB,BS=27648
CONFIRM V
ORIENT L
PAPER 8X9.5/BLUEBAR/HOLED
LM 0.1
PAGE O
OUTLINE SC/1/+15/44/CLUSTER
OLSORT A
MAG FV
CC YES
/*
// EXEC BSTTFTPC,SIZE=BSTTFTPC
ID 00
OPEN 192.168.1.60
USER jcb
PASS bsi
*
CWD /tmp
*
INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
TYPE I
STOR idcams.indexed.pdf
*
QUIT
/*
```

Sample Output

```
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
T2P007I: TXT2PDF - Text to PDF Conversion Utility v15.216
T2P007I: Copyright (C) 2000 - 2015 Leland Lucius
T2P008I: Input File:        LSTH:IDCAMS.357
T2P009I: Output File:       PDFOUT,RF=VB,BS=27648
T2P111I: Units:             INCHES
T2P010I: Paper Width:       8.0
T2P011I: Paper Height:      9.5
T2P012I: Paper Type:        BLUEBAR
T2P013I: Paper Style:       HOLED
T2P014I: Orientation:       Landscape
T2P016I: Left Margin:       0.1
T2P017I: Right Margin:      0.5
T2P018I: Top Margin:        0.5
T2P019I: Bottom Margin:     0.5
T2P022I: Font name:         Courier
T2P023I: Font size:         9
T2P024I: Zoom percent:      100
T2P025I: Lines per inch:    8
T2P026I: Foreground color:  Black
T2P027I: Background color:  White
T2P028I: Carriage Control:  YES
T2P030I: Outline type:      SCANCOL
T2P113I: Config file(s):    *
T2P033V: PageLeft:          0
T2P034V: PageRight:         684.0
T2P035V: PageTop:           576
T2P036V: PageBottom:        0
T2P037V: PageWidth:         684.0
T2P038V: PageHeight:        576
T2P039V: CropLeft:          18
T2P040V: CropRight:         666.0
T2P041V: CropTop:           576
T2P042V: CropBottom:        0
T2P043V: CropWidth:         648.0
T2P044V: CropHeight:        576
T2P045V: TextLeft:          25.2
T2P046V: TextRight:         630.0
T2P047V: TextTop:           540.0
T2P048V: TextBottom:        36.0
T2P049V: TextWidth:         604.8
T2P050V: TextHeight:        504.0
T2P051V: Leading:           9
T2P052V: Lines Per Page:    56
T2P053V: Bar Foreground:    0.95 1.0 1.0
T2P054V: Bar Background:    0.85 0.9 0.9
T2P077I:
T2P077I: Conversion completed successfully
T2P091V: Total output bytes: 250195
T2P091V:               pages: 66
1S55I  LAST RETURN CODE WAS 0000
EOP TXT2PDF
// EXEC BSTTFTPC,SIZE=BSTTFTPC
1S54I  PHASE BSTTFTPC IS TO BE FETCHED FROM BSILIB.TTDEV
06-Aug-2015 13:14:52 002F BSTT000I INITIATED  BSTTFTPC Build253 09/05/12 08.43    EP
06-Aug-2015 13:14:52 002F BSTT003I COPYRIGHT (C) 1998-2015 BARNARD SOFTWARE, INC.
06-Aug-2015 13:14:52 002F BSTT004I CB=TTLA A=0056C000 L=000013FC
06-Aug-2015 13:14:52 002F BSTT019I VSE 9.10 MODE 31-BIT
06-Aug-2015 13:14:52 002F BSTT704I
06-Aug-2015 13:14:52 002F BSTT704I ID 00
06-Aug-2015 13:14:52 002F BSTT704I OPEN 192.168.1.60
06-Aug-2015 13:14:52 002F BSTT704I USER jcb
06-Aug-2015 13:14:52 002F BSTT704I PASS
06-Aug-2015 13:14:52 002F BSTT704I CWD /tmp
```

```
06-Aug-2015 13:14:52 002F BSTT704I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
06-Aug-2015 13:14:52 002F BSTT704I TYPE I
06-Aug-2015 13:14:52 002F BSTT704I STOR idcams.indexed.pdf
06-Aug-2015 13:14:52 002F BSTT704I QUIT
06-Aug-2015 13:14:52 002F BSTT704I
06-Aug-2015 13:14:52 002F BSTT004I CB=TTST A=0056E000 L=00010860
06-Aug-2015 13:14:52 01DF BSTT000I INITIATED  BSTTXFCC Build255 04/23/14 17.03    EP
06-Aug-2015 13:14:52 01DF BSTT020I CPU NATIVE  ID=012345 MODEL=1090 PART=Z1
06-Aug-2015 13:14:52 01DF BSTT027I LICENSED TO BARNARD SOFTWARE, INC.
06-Aug-2015 13:14:52 01DF BSTT028I IPV6/VSE         ENABLED
06-Aug-2015 13:14:52 01DF BSTT694I TCP/IP ID SET TO 00   (BSI IPV4)
06-Aug-2015 13:14:52 01DF BSTT701I TCP/IP-TOOLS BUILD  256
06-Aug-2015 13:14:52 01DF BSTT695I CONNECTING TO PORT    21 IP 192.168.1.60
06-Aug-2015 13:14:53 01DF BSTT018I PORT    21 OPENED RC=     0
06-Aug-2015 13:14:53 01DF BSTT033I 220 Welcome to the z40-b FTP Server
06-Aug-2015 13:14:53 01DF BSTT010I USER jcb
06-Aug-2015 13:14:53 01DF BSTT033I 331 Please specify the password.
06-Aug-2015 13:14:53 01DF BSTT010I PASS
06-Aug-2015 13:14:53 01DF BSTT033I 230 Login successful.
06-Aug-2015 13:14:53 01DF BSTT010I CWD /tmp
06-Aug-2015 13:14:53 01DF BSTT033I 250 Directory successfully changed.
06-Aug-2015 13:14:53 01DF BSTT661I PDFOUT   OPENED INPUT  RC=00000000 RS=00000000
06-Aug-2015 13:14:53 01DF BSTT010I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
06-Aug-2015 13:14:53 01DF BSTT010I TYPE I
06-Aug-2015 13:14:53 01DF BSTT033I 200 Switching to Binary mode.
06-Aug-2015 13:14:53 01DF BSTT034I TYPE SET TO I
06-Aug-2015 13:14:53 01DF BSTT010I STOR idcams.indexed.pdf
06-Aug-2015 13:14:53 01DF BSTT010I PASV
06-Aug-2015 13:14:53 01DF BSTT033I 227 Entering Passive Mode (192,168,1,60,117,88).
06-Aug-2015 13:14:53 01DF BSTT695I CONNECTING TO PORT 30040 IP 192.168.1.60
06-Aug-2015 13:14:53 01DF BSTT010I STOR idcams.indexed.pdf
06-Aug-2015 13:14:53 01DF BSTT033I 150 Ok to send data.
06-Aug-2015 13:14:53 01DF BSTT018I PORT    20 OPENED RC=     0
06-Aug-2015 13:14:53 01DF BSTT022I PDFOUT   CLOSED INPUT  RC=00000000
06-Aug-2015 13:14:53 01DF BSTT047I      1993 RECORDS PROCESSED
06-Aug-2015 13:14:53 01DF BSTT018I PORT    20 CLOSED RC=     0
06-Aug-2015 13:14:53 01DF BSTT023I   244K BYTES IN  0.071 SECS.
06-Aug-2015 13:14:53 01DF BSTT668I BYTES H= 000000000003D153
06-Aug-2015 13:14:53 01DF BSTT048I TCP  I/O WAIT TIME 0.049 SECONDS.
06-Aug-2015 13:14:53 01DF BSTT033I 226 Transfer complete.
06-Aug-2015 13:14:53 01DF BSTT010I QUIT
06-Aug-2015 13:14:53 01DF BSTT033I 221 Goodbye.
06-Aug-2015 13:14:53 01DF BSTT018I PORT    21 CLOSED RC=     0
06-Aug-2015 13:14:53 01DF BSTT001I TERMINATED BSTTXFCC
06-Aug-2015 13:14:53 002F BSTT001I TERMINATED BSTTFTPC
1S55I  LAST RETURN CODE WAS 0000
```

Encrypted PDF Documents

While the txt2pdf User Reference Guide indicates this is not support on z/VSE. This function *is* supported.

There are 2 basic forms of the ENCRYPT command.

1. ENCRYPT ST/owner_password//128

   This command provides full access to the document as if you are the owner.

2. ENCRYPT ST//user_password/128/permissions

   This command provides limited access based on the permissions.

This example defines a user access password with no permissions. Which effectively limits you to viewing the document without being able to change it, printer it, copy it, etc.

```
// ASSGN SYS001,DISK,TEMP,VOL=SYSWK2,SHR
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
/*
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
IN LSTH:IDCAMS.357
OUT PDFOUT,RF=VB,BS=27648
CONFIRM V
ORIENT L
PAPER 8X9.5/BLUEBAR/HOLED
LM 0.1
PAGE O
ENCRYPT ST//jeff/128/N
OUTLINE SC/1/+15/44/CLUSTER
OLSORT A
MAG FV
CC YES
/*
// EXEC BSTTFTPC,SIZE=BSTTFTPC
ID 00
OPEN 192.168.1.60
USER jcb
PASS bsi
*
CWD /tmp
*
INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
TYPE I
STOR idcams.indexed.ro.pdf
*
QUIT
/*
```

Sample Output

```
// DLBL PDFOUT,'FTP1.TEST.FILE',0,SD
// EXTENT SYS001,SYSWK2,,,00015,10000
// EXEC REXX=TXT2PDF,PARM='CONFIG *'
T2P007I: TXT2PDF - Text to PDF Conversion Utility v15.216
T2P007I: Copyright (C) 2000 - 2015 Leland Lucius
T2P008I: Input File:        LSTH:IDCAMS.357
T2P009I: Output File:       PDFOUT,RF=VB,BS=27648
T2P111I: Units:             INCHES
T2P010I: Paper Width:       8.0
T2P011I: Paper Height:      9.5
T2P012I: Paper Type:        BLUEBAR
T2P013I: Paper Style:       HOLED
T2P014I: Orientation:       Landscape
T2P016I: Left Margin:       0.1
T2P017I: Right Margin:      0.5
T2P018I: Top Margin:        0.5
T2P019I: Bottom Margin:     0.5
T2P022I: Font name:         Courier
T2P023I: Font size:         9
T2P024I: Zoom percent:      100
T2P025I: Lines per inch:    8
T2P026I: Foreground color:  Black
T2P027I: Background color:  White
T2P028I: Carriage Control:  YES
T2P030I: Outline type:      SCANCOL
T2P029I: Encryption:        Standard
T2P029I:    Length:         128-bit
T2P029I:    Permissions:    None
T2P113I: Config file(s):    *
T2P033V: PageLeft:          0
T2P034V: PageRight:         684.0
T2P035V: PageTop:           576
T2P036V: PageBottom:        0
T2P037V: PageWidth:         684.0
T2P038V: PageHeight:        576
T2P039V: CropLeft:          18
T2P040V: CropRight:         666.0
T2P041V: CropTop:           576
T2P042V: CropBottom:        0
T2P043V: CropWidth:         648.0
T2P044V: CropHeight:        576
T2P045V: TextLeft:          25.2
T2P046V: TextRight:         630.0
T2P047V: TextTop:           540.0
T2P048V: TextBottom:        36.0
T2P049V: TextWidth:         604.8
T2P050V: TextHeight:        504.0
T2P051V: Leading:           9
T2P052V: Lines Per Page:    56
T2P053V: Bar Foreground:    0.95 1.0 1.0
T2P054V: Bar Background:    0.85 0.9 0.9
T2P077I:
T2P077I: Conversion completed successfully
T2P091V: Total output bytes: 251277
T2P091V:               pages: 66
1S55I  LAST RETURN CODE WAS 0000
EOP TXT2PDF
// EXEC BSTTFTPC,SIZE=BSTTFTPC
1S54I  PHASE BSTTFTPC IS TO BE FETCHED FROM BSILIB.TTDEV
06-Aug-2015 13:45:01 002F BSTT000I INITIATED  BSTTFTPC Build253 09/05/12 08.43    EP
06-Aug-2015 13:45:01 002F BSTT003I COPYRIGHT (C) 1998-2015 BARNARD SOFTWARE, INC.
06-Aug-2015 13:45:01 002F BSTT004I CB=TTLA A=0056C000 L=000013FC
06-Aug-2015 13:45:01 002F BSTT019I VSE 9.10 MODE 31-BIT
06-Aug-2015 13:45:01 002F BSTT704I
06-Aug-2015 13:45:01 002F BSTT704I ID 00
06-Aug-2015 13:45:01 002F BSTT704I OPEN 192.168.1.60
06-Aug-2015 13:45:01 002F BSTT704I USER jcb
```

```
06-Aug-2015 13:45:01 002F BSTT704I PASS
06-Aug-2015 13:45:01 002F BSTT704I CWD /tmp
06-Aug-2015 13:45:01 002F BSTT704I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
06-Aug-2015 13:45:01 002F BSTT704I TYPE I
06-Aug-2015 13:45:01 002F BSTT704I STOR idcams.indexed.pdf
06-Aug-2015 13:45:01 002F BSTT704I QUIT
06-Aug-2015 13:45:01 002F BSTT704I
06-Aug-2015 13:45:01 002F BSTT004I CB=TTST A=0056E000 L=00010860
06-Aug-2015 13:45:01 01DF BSTT000I INITIATED  BSTTXFCC Build255 04/23/14 17.03    EP=
06-Aug-2015 13:45:01 01DF BSTT020I CPU NATIVE  ID=012345 MODEL=1090 PART=Z1
06-Aug-2015 13:45:01 01DF BSTT027I LICENSED TO BARNARD SOFTWARE, INC.
06-Aug-2015 13:45:01 01DF BSTT028I IPV6/VSE          ENABLED
06-Aug-2015 13:45:01 01DF BSTT694I TCP/IP ID SET TO 00   (BSI IPV4)
06-Aug-2015 13:45:01 01DF BSTT701I TCP/IP-TOOLS BUILD  256
06-Aug-2015 13:45:01 01DF BSTT695I CONNECTING TO PORT    21 IP 192.168.1.60
06-Aug-2015 13:45:01 01DF BSTT018I PORT    21 OPENED RC=    0
06-Aug-2015 13:45:01 01DF BSTT033I 220 Welcome to the z40-b FTP Server
06-Aug-2015 13:45:01 01DF BSTT010I USER jcb
06-Aug-2015 13:45:01 01DF BSTT033I 331 Please specify the password.
06-Aug-2015 13:45:01 01DF BSTT010I PASS
06-Aug-2015 13:45:02 01DF BSTT033I 230 Login successful.
06-Aug-2015 13:45:02 01DF BSTT010I CWD /tmp
06-Aug-2015 13:45:02 01DF BSTT033I 250 Directory successfully changed.
06-Aug-2015 13:45:02 01DF BSTT661I PDFOUT   OPENED INPUT  RC=00000000 RS=00000000
06-Aug-2015 13:45:02 01DF BSTT010I INPUT SAM PDFOUT BLKSZ 27648 RECSZ 27640 RECFM VB
06-Aug-2015 13:45:02 01DF BSTT010I TYPE I
06-Aug-2015 13:45:02 01DF BSTT033I 200 Switching to Binary mode.
06-Aug-2015 13:45:02 01DF BSTT034I TYPE SET TO I
06-Aug-2015 13:45:02 01DF BSTT010I STOR idcams.indexed.pdf
06-Aug-2015 13:45:02 01DF BSTT010I PASV
06-Aug-2015 13:45:02 01DF BSTT033I 227 Entering Passive Mode (192,168,1,60,117,132).
06-Aug-2015 13:45:02 01DF BSTT695I CONNECTING TO PORT 30084 IP 192.168.1.60
06-Aug-2015 13:45:02 01DF BSTT010I STOR idcams.indexed.pdf
06-Aug-2015 13:45:02 01DF BSTT033I 150 Ok to send data.
06-Aug-2015 13:45:02 01DF BSTT018I PORT    20 OPENED RC=    0
06-Aug-2015 13:45:02 01DF BSTT022I PDFOUT   CLOSED INPUT  RC=00000000
06-Aug-2015 13:45:02 01DF BSTT047I      2007 RECORDS PROCESSED
06-Aug-2015 13:45:02 01DF BSTT018I PORT    20 CLOSED RC=    0
06-Aug-2015 13:45:02 01DF BSTT023I   245K BYTES IN  0.078 SECS. RATE  3221K/SEC
06-Aug-2015 13:45:02 01DF BSTT668I BYTES H= 000000000003D58D DH=              DL=
06-Aug-2015 13:45:02 01DF BSTT048I TCP  I/O WAIT TIME 0.055 SECONDS. RATE 4568K BYTES
06-Aug-2015 13:45:02 01DF BSTT033I 226 Transfer complete.
06-Aug-2015 13:45:02 01DF BSTT010I QUIT
06-Aug-2015 13:45:02 01DF BSTT033I 221 Goodbye.
06-Aug-2015 13:45:02 01DF BSTT018I PORT    21 CLOSED RC=    0
06-Aug-2015 13:45:02 01DF BSTT001I TERMINATED BSTTXFCC
06-Aug-2015 13:45:02 002F BSTT001I TERMINATED BSTTFTPC
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