

BSI TCP/IP Update TCP/IP-TOOLS

- Jeffrey Barnard
Barnard Software, Inc.
TCP/IP-TOOLS
- <http://www.bsiopti.com>
- jeff@bsiopti.com
- 407-323-4773, 407-323-4775 (fax)

General

- // SETPARM UCMSG='YES'
- // SETPARM MSGMODE='QUIET'

BSTTFTPS/BSTTFTPC

- METER nnn
- VALIDATE ON | OFF
- // SETPARM MAXBUF='YES/NO'
- SEND command

BSTTLPRC

- IBM ON
- VALIDATE ON | OFF
- BANNER

BSTTMTPC

- multiple RCPT TO:/CC:/BCC: commands
- support 2nd subject command SUB2

BSTTVNET

- TERMINAL SPECIFIC by IP Address
- TN3270E support with Bind Image/Unbind
- BSTTUSST USSTAB Menu Re-designed
- VM/CMS TELNET connections
- NOP packets
- PRINTER Command supports SCS LU1 (SNA) printers
- DIRECT, LPR, FTP, IPP Printers

BSTTINET

- Updated HOST command to replace/delete
- DOS ADD/DEL/PRINT ipaddr mask
- Increased PROXYARP table to 32 entries
- network interfaces supported to 32 (from 8)

BSTTINET

- Added IP UDPINFO command
- Added FILTER ON/OFF
- Added REDIRECT ON/OFF
- Added GARBAGE ON/OFF
- Added CKSUM ON/OFF
- Added PORT nnn SUSPEND/RESUME

BSTTINET

- OSA Express driver support GA
 - Requires VSE/ESA 2.6+DY45881
- Hipersocket driver support GA
 - Requires VSE/ESA 2.7
- VSE/ESA 1.3/1.4 support
 - Did I really say VSE/ESA 1.3?

BSTTINET

- intspeed.hta Windows Script to adjust RWS
 - 95/98/98SE/ME/NT/2000 (no XP)
- Added EX10, EX11, EX12 CICS sample EZASOKET programs
- BSTTTCPV phase (\$EDCTCPV) performance
 - Big improvement in DB2 performance
- Improved performance of inbound/outbound packets in device drivers
- Compiler update 10%-20% CPU reduction

Debug Facilities

- TRACEIP ipaddr mask
 - Limits TRACE2 output
- IP TRACE ON/OFF
 - Full internal trace
- IP TRACE2 ON/OFF
 - Packet trace
 - TRACE + TRACE2 = Packet + API

Debug Facilities

- IP TRACE3 ON/OFF
 - Trace to memory buffer (8000 lines)
 - Uses MSG xx,D=FDUMP to print
- IP TRACE4 ON/OFF
 - Keep Alive tracing
- IP TRACE5 ON/OFF
 - API Entry/Exit only

Simple Network Tuning

- Pick a Bottleneck
 - You are at the mercy of the slowest link
- VSE/ESA
 - Get a FAST CPU
 - Get a FAST I/O SubSystem
 - Select an Access Method
 - TCP/IP within VSE
 - » OSA Express (VSE/ESA 2.6) is best
 - » OSA/LCS limited by CPU

Simple Network Tuning

- Remote Host (Known as a PC)
- Get a FAST CPU
- Max out the memory
- Maximum Segment Size
 - Windows likes 576, 1460 is better
- Receive Window Size
 - Windows default is 8K
 - 32K or 64K is much better
 - Must be exact multiple of MSS