



IBM Software Group

TPF Users Group Spring 2007

z/TPF Features

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AIM Enterprise Platform Software

IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Agenda

- SOA Enabled
- Additional new features in development
- Constraint relief
- More Memory
- Greater security
- Reduce costs
- Increased productivity
- Improved tuning
- Improved availability
- Migration to z/TPF
- Details

Additional Features in Development

- GCJ - Java
- MySQL compatibility
- Service Data Objects - SDO - for databases in TPFDF
- Threads

Constraint Relief

Do not let TPF infrastructure be a reason to prevent business growth

- More than 2GB of memory
- Up to 255 SSUs
- SDA addresses up to FFFF for all devices
- Up to 40,000 DASD modules
- >16 I-Stream support

More Memory per ECB (continued)

- Larger 31-bit ECB heap can be used
- ECB private area size
 - ▶ Minimum = 4 meg
 - ▶ Maximum = 16 meg
- ECB private area mapping improves core corruption detection

Greater Security

- Crypto Express2 accelerator (CEX2A) support
- AES cipher suites for SSL
- User APIs to encrypt data using AES
- Hardware acceleration for AES
- New APIs for shared SSL sessions
- Secure FTP client
- SHA-1 APIs for data integrity
- File system security
- Secure key management
- Tape hardware encryption support
- (in development) Protecting data in use

Increased Productivity

Reduce time to market and reduce costs by increasing productivity

- Improved development environment
- Assembler language enhancements
- C / C++ language enhancements
- Improved diagnostics
- Large programs

Large programs

Large amounts of memory allow larger programs

- Do not need to split programs
- Use subroutines in assembler
- Use of fork()
- Threads
- SWISC TYPE=IMMEDIATE
- More inline service routines

File System Enhancements

- Virtual File System (VFS) architecture and mountable file systems
- Memory File System (MFS)
- Fixed File System (FFS)
- Pool File System (PFS)
- File service levels
- File attributes
- File system utilities (dpsys, fsck, pax, tar, view)
- File system security (protecting files and commands)
- Shared memory extensions
- Pseudo-file systems (PROCFS and SYSFS)

Migration to z/TPF

- Single source
 - ▶ TPF Toolkit automates most changes
- Coexistence in a loosely coupled complex when migrating to z/TPF
- Installation of many user enhancements
- Education
- Services

Additional Details

