



IBM Software Group

TPF User's Group Spring 2005

Open Source Subcommittee

So why are we here?



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Enterprise Platform Software Development

AIM Enterprise Platform Software

IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Agenda

- Open Source Subcommittee activities
- LDAP Porting example



Open Source Subcommittee

- What kind of problems does this subcommittee address?
 - Language issues
 - Tricks and techniques
 - Java , when and how, not if
 - Compiler issues
 - Library issues
 - glibc
 - stdlib_c++
 - STL
 - Others?



Open Source Subcommittee

- What kind of problems does this subcommittee address?
 - Open Source Support Issues
 - Compiler Support service offerings
 - Apache support and other OS drop ins
 - Linux Support
 - RedHat Network as an example, how can it apply to TPF maintenance
 - Legal Issues
 - Understanding GPL, LGPL, Mozilla, Apache, etc.

GCC Compiler Distribution and Support

- **Deliverables:**
 - **GCC Compiler and Utilities required for z/TPF EE V1.1**
 - **Tooling and associated documentation to permit the customer to build a cross compiler**
 - **Compiler and Utilities documentation in HTML format**
 - **Program defect support services for problems found with the Compiler and Utilities through the execution of TPF Systems code**
- **Problem reporting procedures through TPF Services and Support**
- **All deliverables distributed via ftp**
- **Tentative Contract duration: One year**

As GPL open source software the GCC cross compiler cannot be supported through the same channels as are used for the C/C++ Compiler. GCC is not an IBM product. If accepted, this service offering is an option that allows z/TPF customers to report problems through the TPF Services and Support teams using mechanisms similar to problem reporting for z/TPF itself. Problems with the compiler submitted without a contract can not be accepted by IBM, however may be resolved by the customer through alternative channels.

Community Based Porting Efforts

- Possible Task Force to deal with:
 - Open Source owners
 - Better for the TPFUG to act as a single interface to an OS owner than a dozen companies with TPF specific issues
 - Organizing a community effort to port code
 - Similar to past efforts on Recoup as an example
 - Contracting IBM or an outside party to do the porting
 - Contracting long term maintenance
 - Code ownership and fairness issues



Porting Project Example

- IBM took a quick look into Open_LDAP as a service based porting effort
- Three Classifications of code to deal with
 - TPF modifications, business as usual with the TPF team
 - Modifications to the open source code, belongs to the open source code owner by the terms of the license
 - Glue code: Code specific to TPF but not part of either such as a file I/O driver that LDAP can call that in turn calls TPFDF APIs
 - Decisions to be made on who owns such code

Porting Project Example

- Rough estimate only (not an official bid)
- Porting effort to get a reasonably performing LDAP server: 4 PYs
 - Roughly \$1.5 million
- Maintenance at standard rate of 15% of original cost: \$225,000 per year
- Ownership of the “glue” code is key, would be the main reason for most TPFUG members to “buy in” rather than create their own LDAP port

Porting Project Example

- Fairness Issues
 - Probably only a few members would jointly fund original porting effort
 - How to be fair when other want to pick up the ported code?
 - Higher maintenance fee?
 - Compensation for the original members
 - Original members to consider port funding as a donation to the community
 - Have any compensation flow to the UG for other porting efforts?

Interest in Proceeding with LDAP?

- If your company would be interested in proceeding with LDAP please contact me or the Open Source subcommittee chairs
- Not an automatic decision to have IBM Services do the work, there would be a task force (of the funding companies) to make project decisions



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