z/TPF V1.1

2013 TPF Users Group

MQ Update

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MQ Support

- **z/TPF MQ support is widely used by customers**

  - Best of industry performance and stability

- **Websphere MQ**

  - Developed by IBM Hursley

  - Runs on z/OS and distributed platforms

  - Has evolved over time to provide rich functionality

  - Websphere MQ 7.5 shipped in June 2012

Porting Websphere MQ 7.5 to z/TPF

- **At October 2012 TPFUG, IBM asked if there is customer interest in IBM porting Websphere MQ 7.5 to z/TPF**
  - Multiple customers expressed interest
- **z/TPF applications would have more choices for MQ:**
  - Use MQ client to communicate with remote MQ servers
  - Use Turbo MQ queue manager
    - Highest performance option
  - **Use full function Websphere MQ queue manager**
    - **Allows applications to exploit additional MQ functionality**
- **Possible follow on would be to enable some additional MQ 7.5 functions to be used by Turbo MQ**

Porting Websphere MQ 7.5 to z/TPF

- **IBM has started to look at what it would take to port WebSphere MQ 7.5 to z/TPF**

  - Large effort (over 1 million lines of source code)

- **The goals and proposed procedure are to:**

  1. Get the code to compile

  2. Add/prototype any missing infrastructure

  3. Test basic definitions (define queue manager and queues)

  4. Test basic functions (put and get messages from queues)

  5. Test advanced functions (see next page for the list)

Requirements that Would be Satisfied if Websphere MQ were Ported to z/TPF

- TPFUG Requirements:
  - MQ04009 - MQ Remote Administration
  - MQ06003S - MQ Clustering
  - MQ04018 - Support MQ requestor channels
  - MQ07001F - Realtime monitoring of MQ channel and queue usage
  - MQ06002S - Message translation by the Queue Manager
  - MQ04010 - Support MQ Ping
  - MQ04008 - Add MQ message user exits
  - MQ06001S – Ability to put description on Queue Manager, Alias, Local and Remote queues
- Other:
  - MQ Publish/Subscribe (pub/sub)
  - Remote MQ client using JMS to communicate with z/TPF MQ server

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