IBM Software Group

# *TPF Users Group Spring 2007*

## *z/TPF Update*

Name: Stuart Waldron, STSM

Venue: Main Tent

**AIM Enterprise Platform Software**

IBM z/Transaction Processing Facility Enterprise Edition 1.1.0
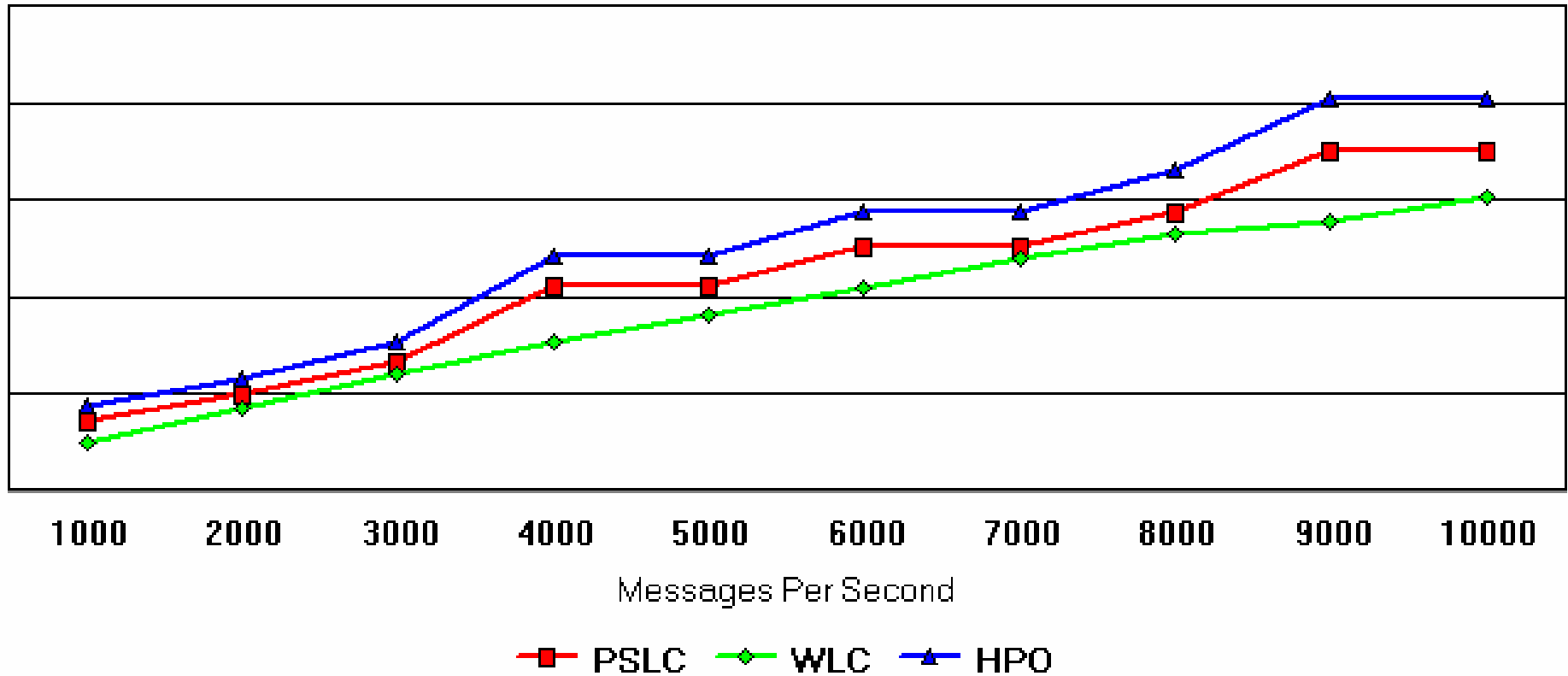
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# z/TPF Pricing Options Review

- **TPF 4.1 is priced by the size (MSU) of the CPU it is running on**

- **z/TPF offers full box pricing (PSLC) or usage based pricing (WLC)**
  - With each new z/Series processor generation, software pricing is improved because of technology dividend

- **SOA Value Enhancement (what z/TPF can do to help)**
- SCRT
  - Sub-Capacity pricing, for either EWLC or WLC, requires the customers fully migrate all z/OS® and z/TPF licenses to utilize the Sub-Capacity Reporting Tool to generate Sub-Capacity Reports. These Sub-Capacity Reports must be generated and sent via e-mail to IBM each month
  - IBM must receive the report by the 9th or full capacity is assumed
  - You must report for 95% of the period
  - z/TPF will write SMF 72 and 89 records to file, to be processed by z/OS®
  - SCRT support is targeted for PUT2
    - z/OS® could be used to support z/TPF

- IBM plans to use SCRT to introduce a variety of initiatives for z/TPF aimed at reducing the total cost of ownership when running new workloads
- A Service Oriented Architecture (SOA) may help to enhance a customer's ability to bring high value functionality to market  by enabling the reuse of existing functions. This solution typically works best when existing solutions are <u>directly</u> enabled for SOA, not through proxies. IBM plans to implement technical solutions aimed at demonstrating the value proposition of direct enablement of the existing TPF based customer solutions

# Pricing Model Comparison

Sample cost for system with 500k average pathlength per message
HPO – TPF 4.1 system with DF and HPO option
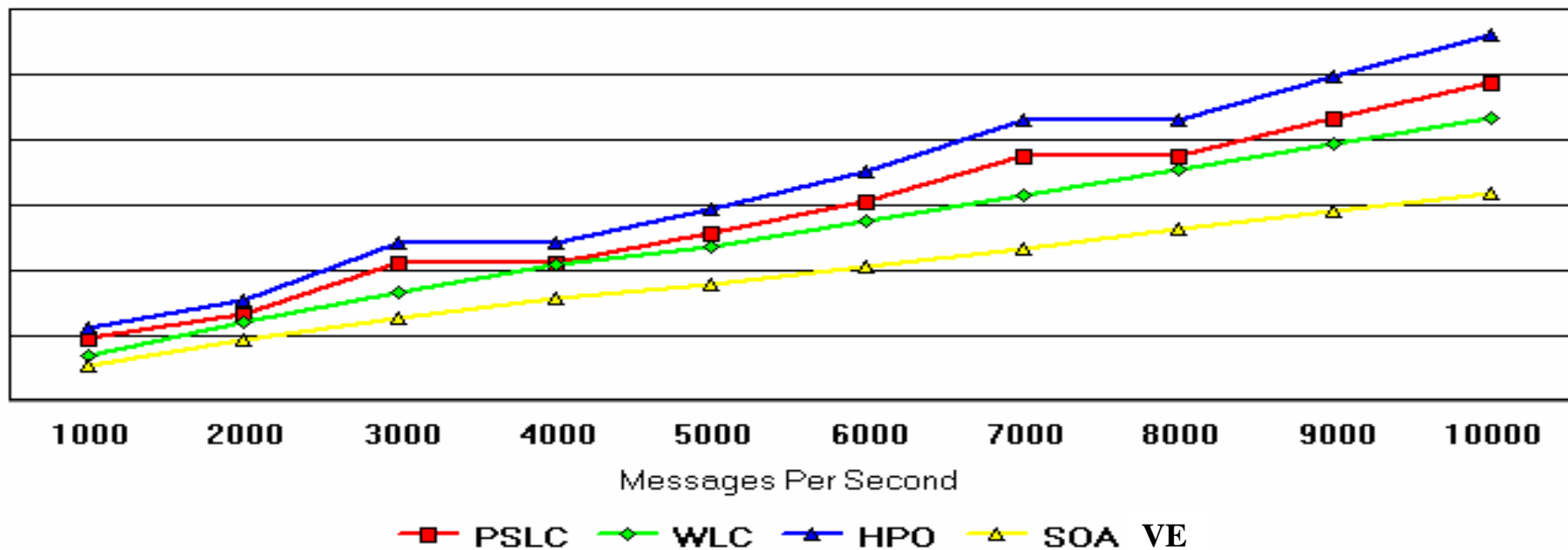PSLC and WLC – z/TPF system with DF and HPO option



**Pricing Model Comparisions**

Messages Per Second

PSLC    WLC    HPO

# Increasing Value

- HPO – TPF 4.1 (older version)
- PSLC, WLC – z/TPF (new version)
- SOA VE – Effective billing after allowing for SOA overhead

**Pricing Model Comparisions**



Messages Per Second

PSLC  WLC  HPO  SOA VE

# GNU Compiler Support

- IBM Strongly Recommends accessing via Support contract through TPF Team
  - Standard reporting mechanism
  - Potential over the next several years for patches and changes
  - Pre-built compiler
    – Version used by the TPF Lab
    – Fixes rolled out by GCC support vendor

# z/TPF Corequisite Software : Reminder
## (see z/TPF Migration Manual for Details)

- z/TPF

- z/TPFDF

- Linux for zSeries

- HLASM for zSeries for z/TPF

- GNU Cross Compiler

- glibc and libstdc++ runtime libraries modified for z/TPF

- Korn Shell

- IBM z/OS Version 1 Release 3 (5694-A01) or later release,

  - High Level Assembler (HLASM) Release 5

  - z/OS UNIX System Services (z/OS UNIX)

  - C/C++ without Debug Tool

  - DFSORT

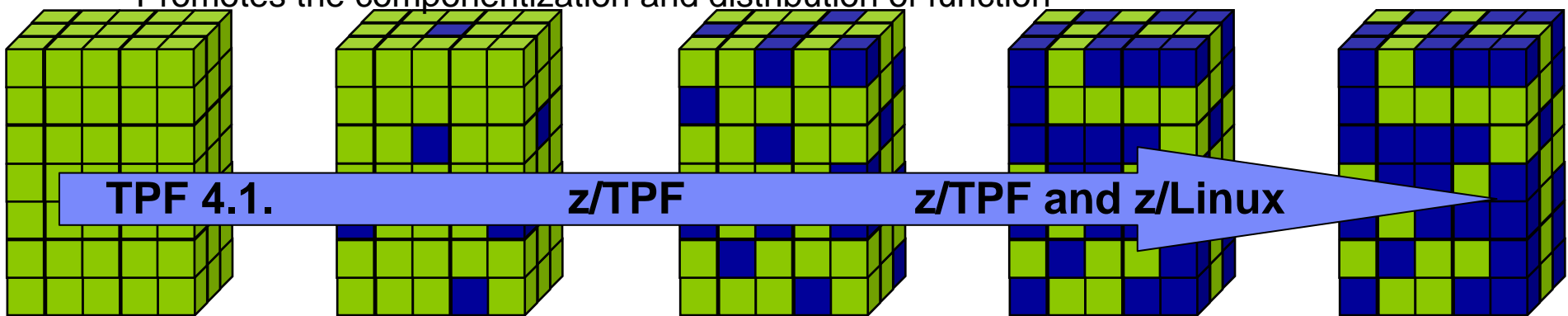  - IBM Enterprise PL/I for z/OS Version 3 Release 3 (5655-H31), or later release
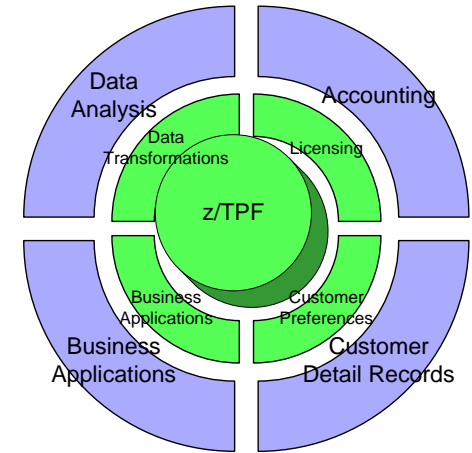
# Focus Items

- Data Federation

- Web Services Integration
  - Supporting SOA

- Web 2.0

# z/TPF and z/Linux Allow Customers to Move to a Balance of vertical and horizontal technologies

z/TPF 1.1

- Open development model =
  - Commodity skills, commodity tooling, faster time to market

- Componentization of existing code =
  - Legacy/assembler programs repackaged as reusable components
  - Breaks monolithic code base into manageable parts

- Supports SOA
  - Promotes the componentization and distribution of function

**TPF 4.1.**          **z/TPF**          **z/TPF and z/Linux**

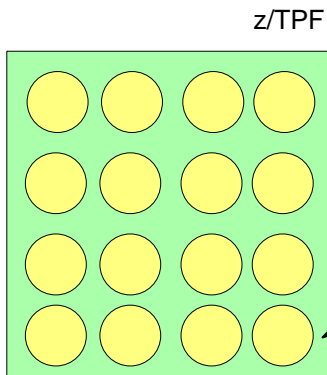Green = Mainframe          Blue = Distributed

# Rebalance Workload

**1**

Today, TPF 4.1 is a monolithic code base whose processes and data are locked up, which is cost prohibitive to replace, and too hard to pull apart
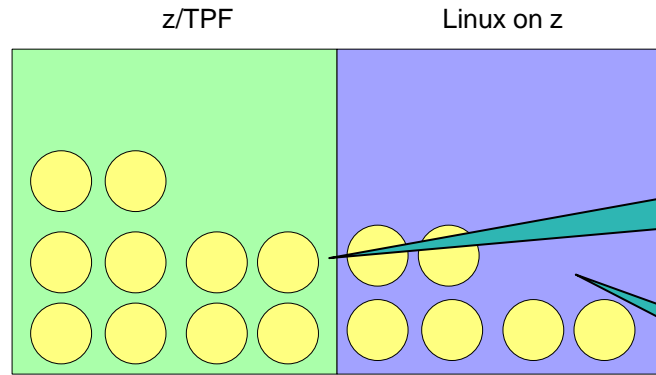
**2**

z/TPF

z/TPF allows TPF code to become SOA ready

Legacy code/assembler can be repackaged into resusable components/services for use throughout the enterprise
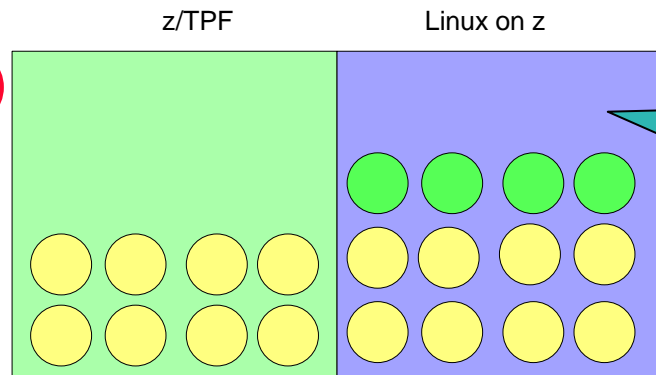
**3**

z/TPF          Linux on z

z/TPF SOA support

With z/Linux near zero latency

New components/services can now be redistributed to application servers for use throughout the enterprise and participate in the customers' SOA plans
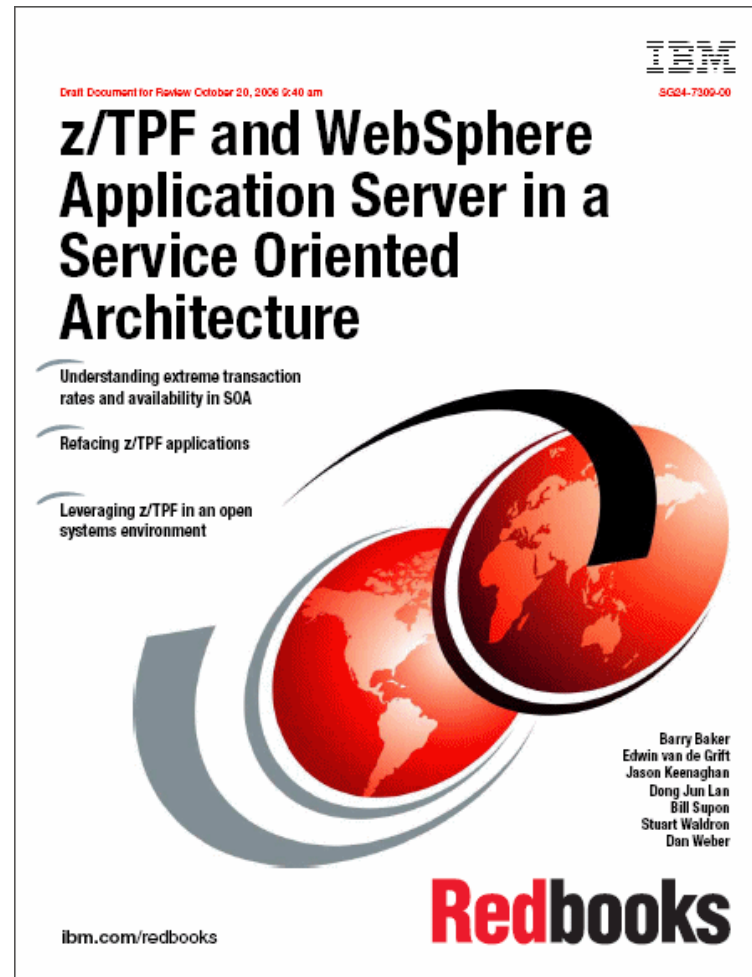
**4**

z/TPF          Linux on z
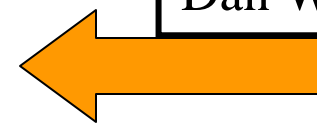
WebSphere Business Value Linux commodity cost and skill base z/TPF speed reliability scalability

New business functions can then be added to the application server and utilize z/TPF for data and processes

**AIM Enterprise Platform Software** **IBM z/Transaction Processing Facility Enterprise Edition 1.1.0**
**TPF Users Group** **Las Vegas, Nevada** **Spring 2007**

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Bill Supon

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Find out more about new z/TPF Products & Services

**AT THE IBM RECEPTION**

*MONDAY, April 23*

*7:00 PM - 10:00 PM*

*Savoy Ballroom*

*Fun....Food...Gifts*

IBM

# IBM Hospitality Suite

- z/TPF Migration Assistance
- z9 BC + Crypto Tape Drive
- SOA
- TPF Toolkit
- TPF + z/TPF Debugger
- TPF Operation Server
- Continuous Data Collection
- GCC and Linux
- z/TPF Security

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