



## ***The Modern Mainframe – At the Heart of Your Business***

**The New Mainframe - At the Heart of Your Business Operations**



## *What is a Mainframe?*

- A computer system designed to run many commercial workloads, at high levels of utilization, without stopping



## *The Mainframe...*

- Delivers value for core commercial workloads
- Designed to maximize workload throughput
- Tight control yields reliability, recovery, and high utilization
- Minimize staffing requirements by running a lot of work in one place
- Delivers tremendous TCO when fully loaded

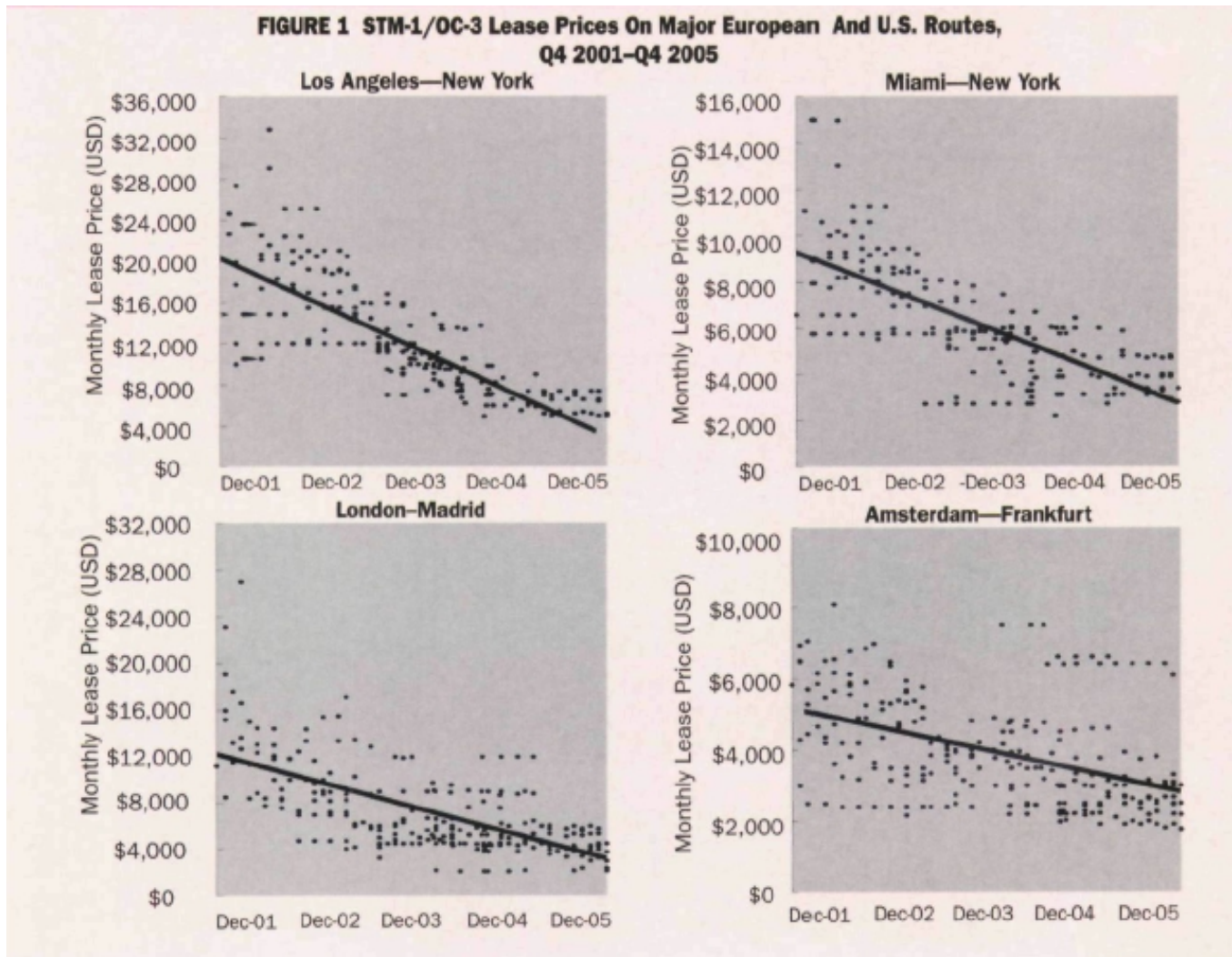
## ***Shifting Trends Favor the Mainframe Again***

- Continuous availability is even more important in the web world
- Security and compliance are top of mind
- Server sprawl has driven up the cost of labor
- Cost of power is increasing
- TCO pressure is driving customers to consolidate workloads on virtualized platforms
- Growing use of Linux
- Network economics favor consolidation once again
- The mainframe is at the center of SOA
- IBM has delivered dramatic mainframe price reductions

***It's time to take a fresh look at the mainframe!***

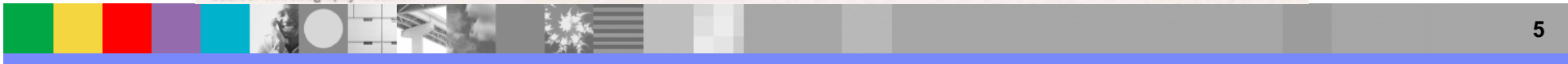


# Decreasing Price of Bandwidth Favors Geographic Server Consolidation



Source: TeleGeography research

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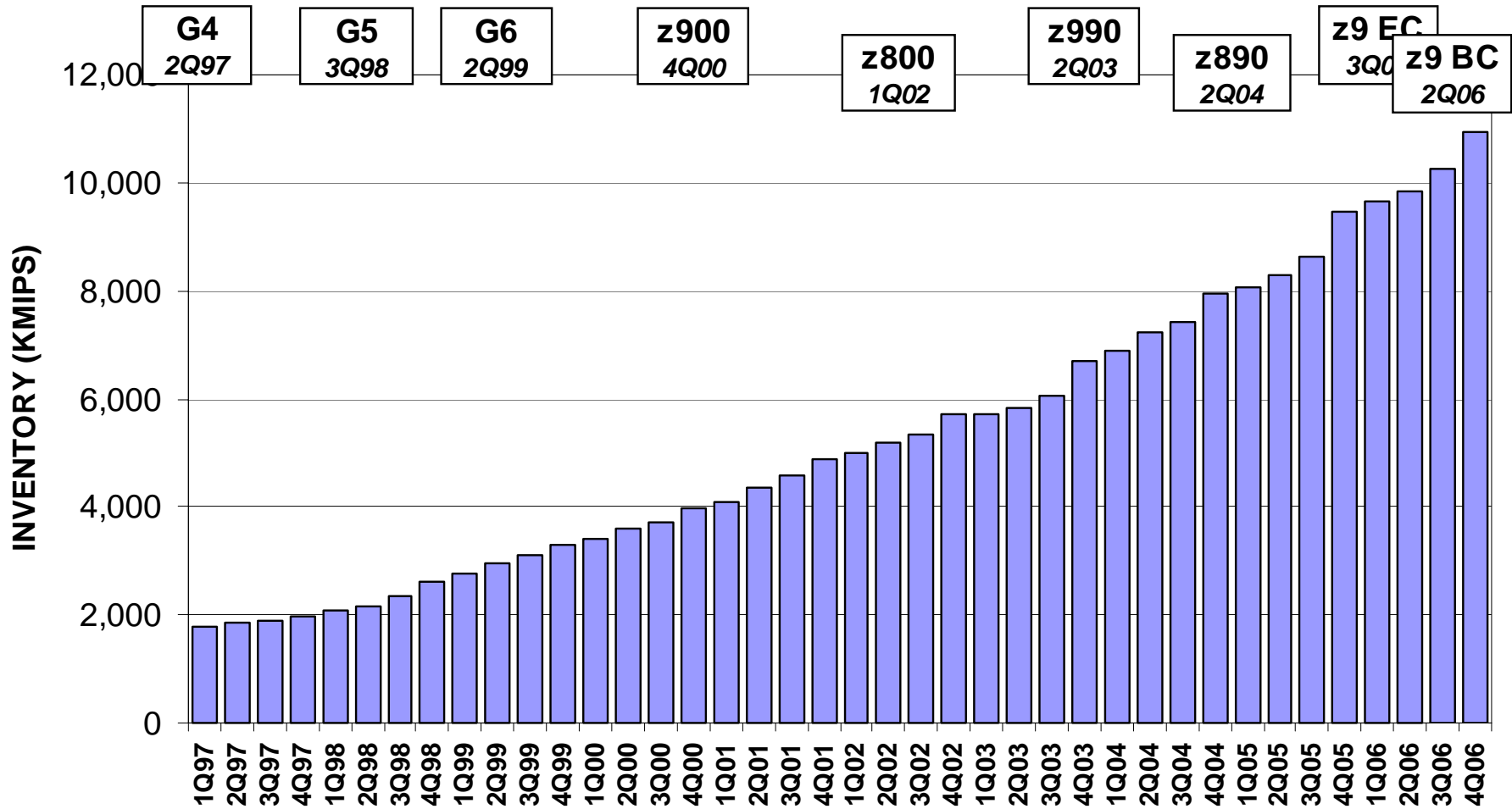


## ***IBM System z Economy of Scale***

▪ <b>Near-linear scalability</b>	<b>up to 900,000+ concurrent users</b>
▪ <b>“Mean Time Between Failure”</b>	<b>measured in decades versus months</b>
▪ <b>¼ network equipment costs</b>	<b>virtual versus physical</b>
▪ <b>1/25th floor space</b>	<b>400 sq. ft. versus 10,000 sq. ft</b>
▪ <b>1/20 energy requirement</b>	<b>\$32/day versus \$600/day</b>
▪ <b>1/5 the administration</b>	<b>&lt; 5 people versus &gt; 25 people</b>
▪ <b>Highest average resource utilization</b>	<b>&gt; 70% versus &lt; 15%</b>
▪ <b>Highest concurrent workload</b>	<b>hundreds of applications versus few</b>



# Customers Are Installing More MIPS

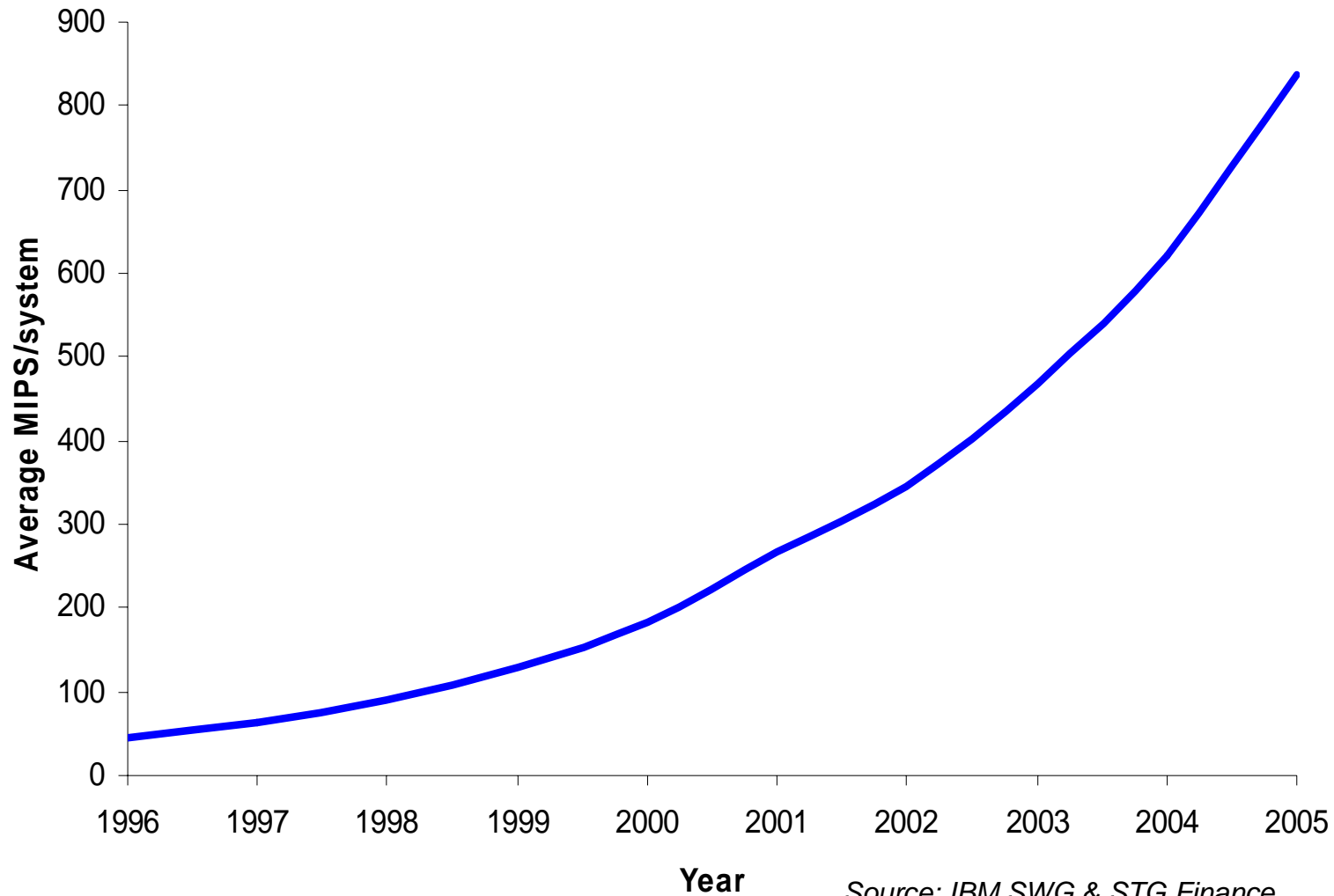


CAGR 1997-2006 = 21%

Source: IBM STG Finance



## Average Size of Mainframe Systems WW is Increasing





## ***System z Today***

- 490 of IBM's top 500 customers use CICS
- Over 95% of Fortune 1000 companies use IMS
- DB2 for System z is in 25 of the top 25 worldwide banks, 23 of the top 25 US retailers, 9 of the top 10 global life/health insurance providers
- IMS and CICS systems execute over 80 billion transactions a day
- System z increased market share 14 points while Sun, HP, and others fell over past 5 years
- 60% of System z revenue is driven by new workloads (Java, Linux, Database, SOA)

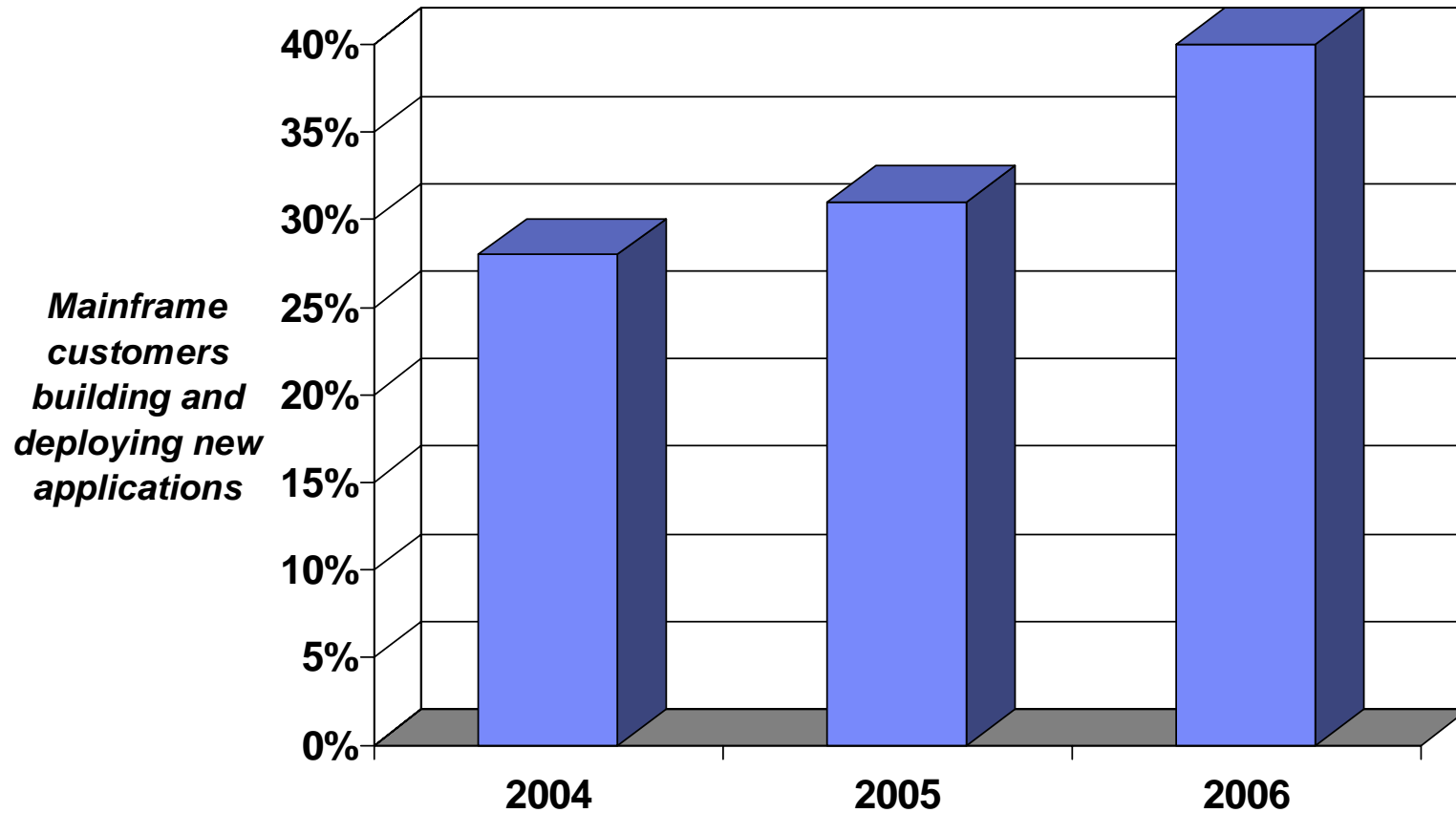
## ***The New Mainframe – Getting Better All the Time***

- Platform for Service Oriented Architecture
- Modern Application Development Tools
- Data integration built on rock-solid technology
- A new generation of system management tools
- Best Qualities of Service
- The industry benchmark for Secure computing
- Industry-leading Disaster Recovery capabilities
- The lowest Cost of Ownership through centralized computing

## ***New Mainframe Ecosystem Initiatives***

- ISV program for System z
  - Free technical support and use of System z for porting
  - Go to market support
  - Via IBM's Partner World Industry Network
  
- IBM academic initiative for mainframes
  - 250 colleges and universities, 300 professors
  - 20,000 new skills by 2010

## ***Momentum for New Mainframe Applications is Building***



Source: Evans Data Corp, Enterprise Development Survey, Winter 2005

## ***When to Use a Mainframe***

- Use a mainframe
  - To consolidate mature business workload into a structured, cost contained environment
  
- Use a distributed system
  - To run individual applications, which are new, or subject to change in a less controlled environment

## ***The Value of Distributed Computing***

- Rapid Application Development and Deployment
- Separation from Core business processes
  - Flexibility without impacting core business stability
- Focused and controlled investment for special purpose applications
  - Compute intensive, deep analytics
- Designed for high performance at low cost in a single application environments

## ***Mainframe or Distributed – or Both***

- Distributed Computing does not replace Mainframe Computing
- Side-effects of improper application of Distributed Computing
  - Proliferation of Servers
  - Spiraling Labor Costs
  - Difficult Security Environment
  - Data and process synchronization challenges
- These side-effects are causing a re-evaluation of the distributed computing model

## ***Meet On Demand Insurance (ODI)***

**We need to transform from a regional insurance company to a global insurance company**

**We need to work better with brokers, underwriters, and customers**

**We need to increase revenue and improve profits**



**On Demand Insurance  
CEO**



## ***On Demand Insurance – I/T Challenges***

**Our business direction will require significant new solutions**

**Should I use distributed solutions or do more with my mainframe?**



**On Demand Insurance  
CIO**

## ***How ODI Can Leverage New Mainframe Capabilities***

### **IBM has incredible new capabilities in the mainframe environment**

- Integrated SOA (Service Oriented Architecture) support
- New Data Integration capabilities
- New Software Development Tools
- New Easy-to-use Operations and Systems Management Tools
- Lower cost replacements for third party tools

**All of these capabilities are built on the most trusted computing environment in the industry**



**IBM**

## ***On Demand Insurance***

**So, how can the  
mainframe help me meet  
my business objectives?**



**On Demand Insurance  
CEO**

## ***Agenda***

<b>Introduction</b>	<b>9:00 – 9:30</b>
<b>Unlock the Value of Mainframe Assets using SOA</b>	<b>9:30 – 10:15</b>
<b>Productive Tools for Application Development</b>	<b>10:15 – 10:45</b>
<b>BREAK (15 minutes)</b>	<b>10:45 – 11:00</b>
<b>Information on Demand</b>	<b>11:00 – 11:45</b>
<b>The New Face of Mainframe Security</b>	<b>11:45 – 12:15</b>
<b>LUNCH (1 Hour)</b>	<b>12:15 – 13:15</b>
<b>The Mainframe Design Point – Fundamentally Better</b>	<b>13:15 – 14:00</b>
<b>The New Face of Mainframe Operations</b>	<b>14:00 – 14:30</b>
<b>BREAK (15 Minutes)</b>	<b>14:30 – 14:45</b>
<b>Keeping Your Business Running When Disaster Strikes</b>	<b>14:45 – 15:00</b>
<b>Consolidate and Save with Mainframe Linux</b>	<b>15:00 – 15:25</b>
<b>When the Mainframe Really Is the Lowest Cost Platform</b>	<b>15:25 – 16:00</b>
<b>CLOSE</b>	<b>16:00</b>



