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Demystifying OS/390




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Open for VSe-business™

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Demystifying OS/390 ?!

Or: "How I learned to stop worrying and love the bomb."

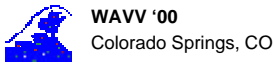
Secondary title to:

"Dr. Strangelove"




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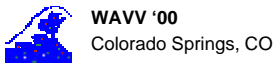
Trademarks

- > IBM Trademarks / Registered Trademarks
 - S/390
 - VM/ESA
 - OS/390
 - IBM
 - S/390
 - Sysplex
 - Multiprise
 - CICS
 - VSE/ESA
 - WebSphere
 - DB2
 - MQSeries
 - Net.Commerce
 - VisualAge
- > IntelliWare Trademarks
 - Win/VSE
 - iFrame
 - Web/VSE Host
- > Other Trademarks
 - UNIX
 - Lotus
 - FLEX-ES
 - Lotus Domino
 - JAVA




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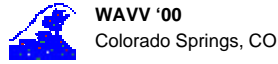
Objective:

- IS **NOT**:
 - To convince you to migrate to OS/390
 - To tell you about migration tools
- It **IS**:
 - To tell you about some useful OS/390 tools
 - To tell you how it can work **with** VSE/ESA
 - To show how it can be affordable



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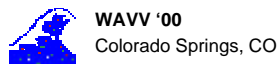
Agenda

- ✧ How OS/390 can be affordable
 - ✧ Multiprise 3000 H30 Migration Option
 - ✧ OS/390 Workload Transition offering
- ✧ Why you might want to use OS/390
 - ✧ Advanced ebusiness solutions
 - ✧ UNIX Services and related apps.
- ✧ How OS/390 can connect to your VSE/ESA
 - ✧ TCP/IP : FTP, NFS, etc.
 - ✧ "Connectors" (VSE/ESA 2.5)
 - ✧ Web connections, Web/VSE Host (and OS/390)



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But first, a Reminder

- Each system has it's strengths and even weaknesses
- Our objective is to use each to it's best advantage
- No one system is best for all purposes, sometimes we have to use more than one!



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Think of them this way...

VSE OS/390 VM/ESA

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Multiprise 3000 H30
Migration Option

- Designed to make big jumps easier
 - 60 MIPS would be a high entry point
- Upgrade to Multiprise 3000 H30
 - From old/small processor
 - GOLC pricing is good to start with
- Get discounted GOLC pricing
 - Discount varies according to 'from' system
 - Smaller 'from' systems get larger discounts
 - Discount can range up as high as 50%

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Good price on VSE/ESA

- OK, now I've got a good price on VSE/ESA on my new MP 3000, but isn't OS/390 *expensive??*

VSE/ESA + 


Limited time offer
Price good for 3 years

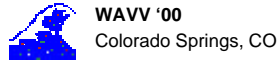
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OS/390 Workload Transition Offering

- Intended to assist VM/ESA and VSE/ESA customers 'transition' to OS/390
- Also a good way to use and try out OS/390 for three years at little/no cost
 - Then decide if you like/want it
- Only available on GOLC licensed systems
 - Currently, only Multiprise 3000
- Few "Terms and conditions"


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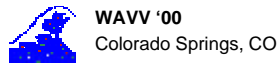
What you Get

- OS/390 license (current version/release)
 - And "OS/390 middleware software whose function is similar to VM and/or VSE software installed on the same Multiprise 3000 processor"
- Optional preloaded OS/390 system
- IBM Education card
 - One person
 - Intended for taking OS/390 courses



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What it Cost

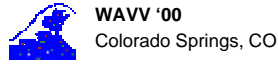
\$ 0.00

- For three years
- Then normal GOLC for processor



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What's the Catch?

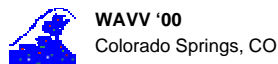
- ... "customers are expected to have one or more OS/390 applications in full production within 36 months of the acceptance of this offering".
- No specified cancellation or other penalties

Try it, you might like it.....



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But ... WHY ?

OK, I can get OS/390 for a very reasonable cost. But why would I want to?

In a word: **Tools**

More tools to work with and exploit.

(you can never have too many tools)



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Tools for eBusiness

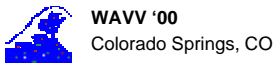
- VSE has some nice tools
 - http (web) Servers
 - zWeb/Host
 - TCP/IP (with FTP, NFS, etc.)
- But, in keeping with VSE philosophy
 - Fairly basic functions... nothing 'fancy'
 - No complete development environment for advanced web functions

VSE has a good toolbox of wrenches, sockets, and screwdrivers, but if you have a new car to maintain, you need a computer driven diagnostic center.



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WebSphere WAS*

- JAVA based application / development environment
- HTTP Server (with CGI)
- JAVA for OS/390
- Component based application deployment
 - Enterprise Java Beans and Component Broker

Complete eBusiness Web development and delivery system

*WAS = Web Application Server




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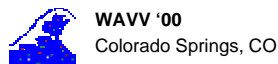
Net.Commerce

- Presents web pages built dynamically from a database
- Support individual 'stores' and 'malls' of multiple stores
- Provides 'shopping cart' and payment support
- A 'database' at heart
- A toolkit, not a turnkey solution
- Includes high-level interfaces to DB2 and net.data




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UNIX Services

- Fully branded, 'UNIX-95'(+)
system
- Standard and 'automatic' with OS/390
- Interfaces to traditional OS/390 files and interfaces
- Supports UNIX based Apps
 - Lotus Domino – Notes
 - SAP R/3
 - PeopleSoft




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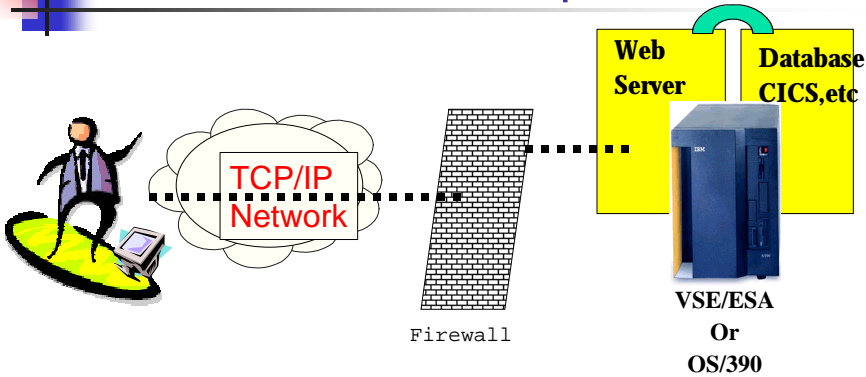
Now, HOW to utilize OS/390's tools

- VSE/ESA 2.5 has 'Connectors'
 - VSE External Services
 - Access to VSAM, Power, ICCF
 - DB2 Infrastructure
 - Access to VSAM and DL/1 files
- OS/390 has 'Connectors'
 - First Generation (API) connectors
 - Second Generation (Java) connectors
 - Third Generation (Enterprise Java) connectors


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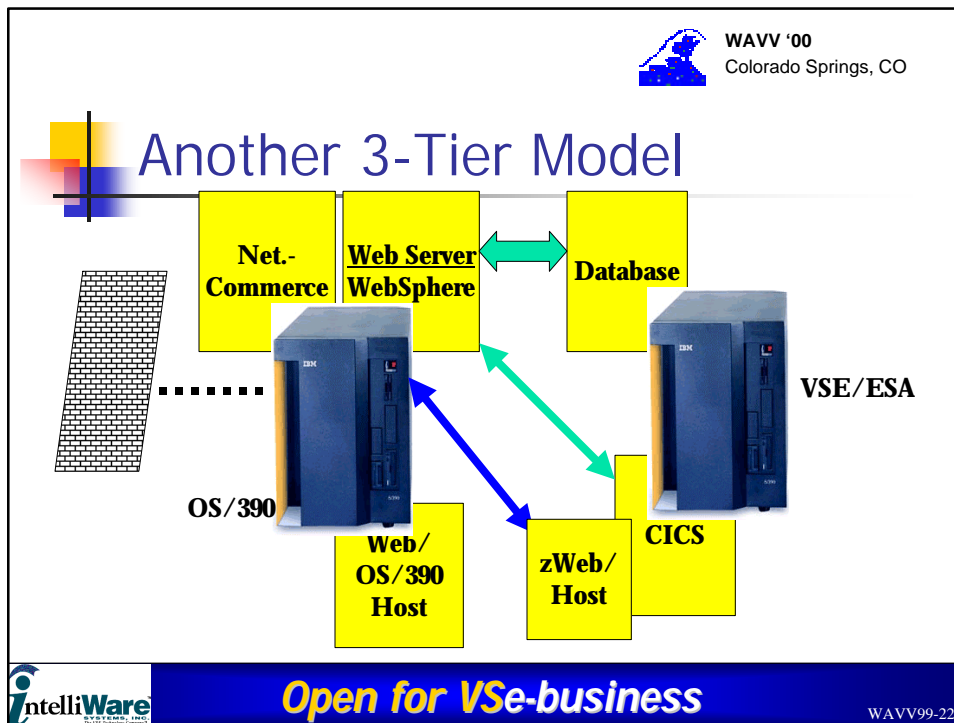
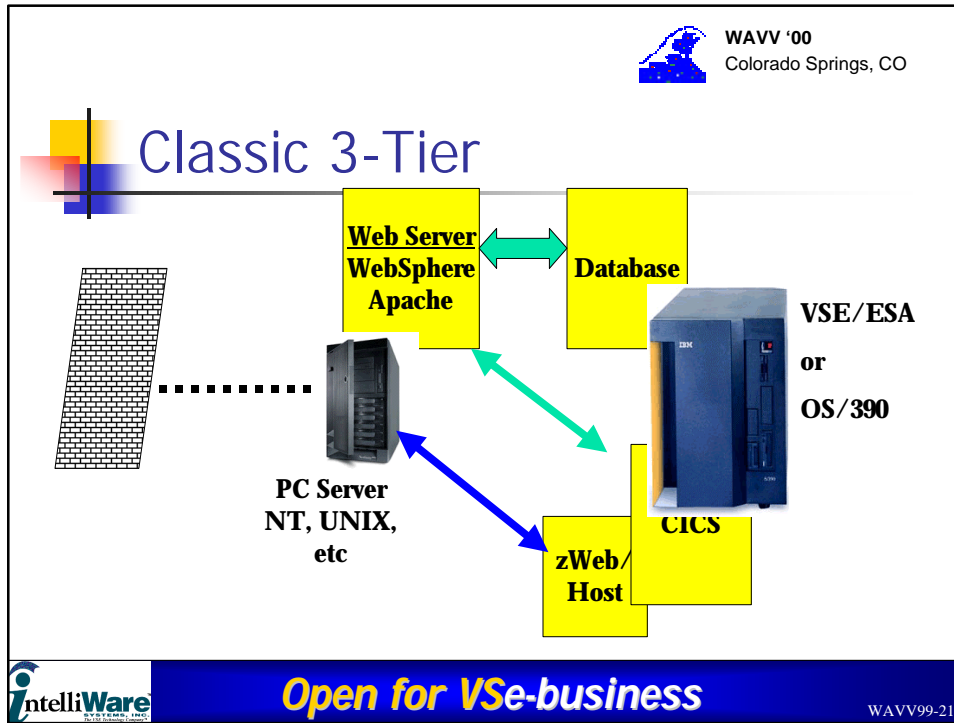
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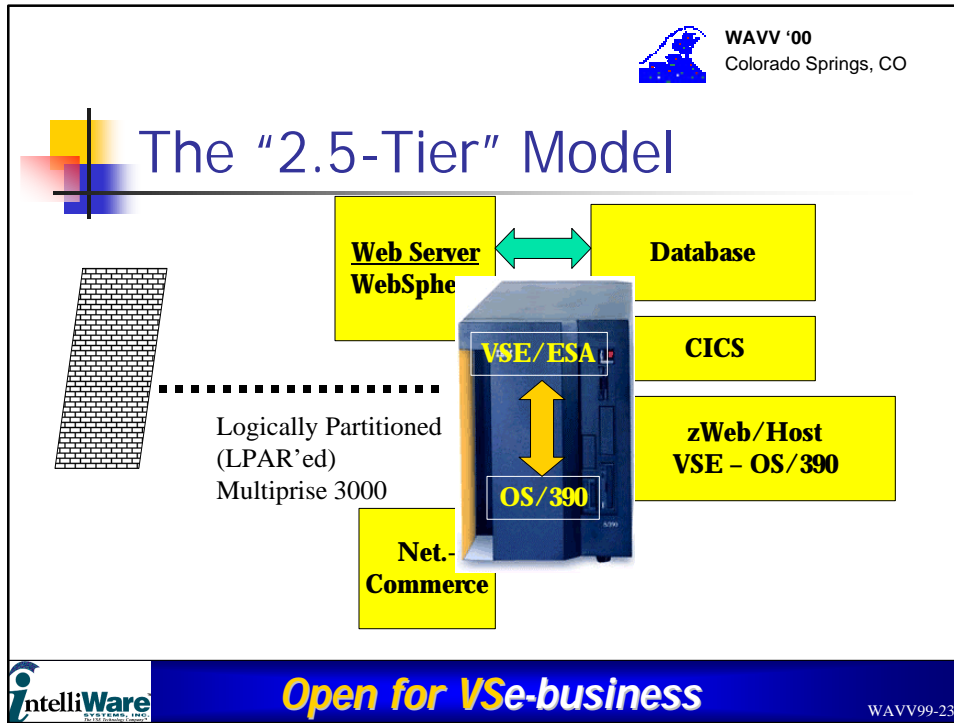
Basic 2-Tier Example



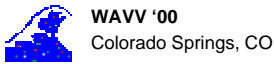
Note: Future examples will only show 'inside' of firewall.

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- ## Advantages of the "2.5 Tier"
- All the same architecture
 - Same concepts and I/O structures
 - Learning curve not as big
 - Compatible / similar software products
 - CICS-TS - DB/2 - VSAM
 - Fast! Interconnections
 - ESCON CTC
 - Resource balancing
 - Dynamic rebalancing between LPARs
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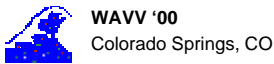
Other OS/390 'Tools'

- Tivoli family of products
 - Systems/Network management
 - ADSM
- Application Development environments
 - TSO
 - UNIX Services



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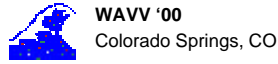
How about VM/ESA?

- Another good option:
 - Very flexible
 - Good synergy with VSE
 - Multiple Tools
- But:
 - No "Migration Offering"
 - Not as many "Off the shelf" ebusiness tools
 - Websphere, net.commerce, etc




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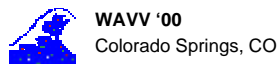
Linux for S/390 ?

- Good possibilities:
 - Definitely low cost
 - Very flexible
 - Future potential very bright
- Not quite ready
 - Only basic etools (Apache, etc.), not advanced (WebSphere, net.commerce)
 - Steeper learning curve




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Summary: VSE + OS/390

- Not for everyone, but can be useful
- Takes advantage of available, advanced tools within the S/390 family
- Minimal additional cost (for 3 years)
 - And a LOT can happen in 3 years

Maybe you should add OS/390 to your tool-kit.



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