

What's New in CA 2E Web Option

Rory Hewitt – CA Technologies

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About the Speaker

- Rory Hewitt
 - Software Architect for 2E team
 - Software developer for 17 years (14 with 2E development team)
 - Helped design some of the largest features in recent 2E history
 - RPGIV generator, function wrapping & duplicate parameters, triggers
 - ...and, of course, Web Option!
 - Competition-level snowboarder and karateka
 - British (hence the strange accent!)

agenda

Web Option prior to r8.5

how things changed at r8.5

future enhancements

questions

Web Option prior to r8.5

Web Option prior to r8.5

First release was Release 7.0+

- Initially made available in mid 2001
- Each new release has included more functionality
- Becoming a 'stable' product

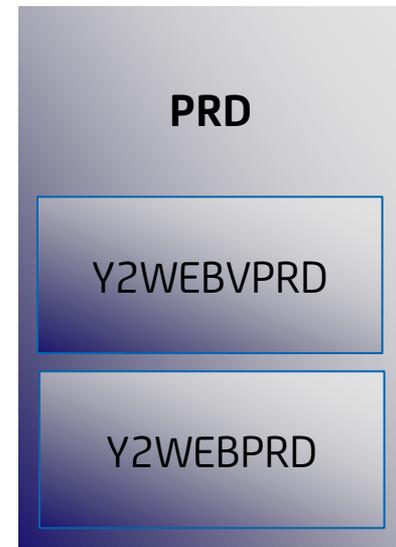
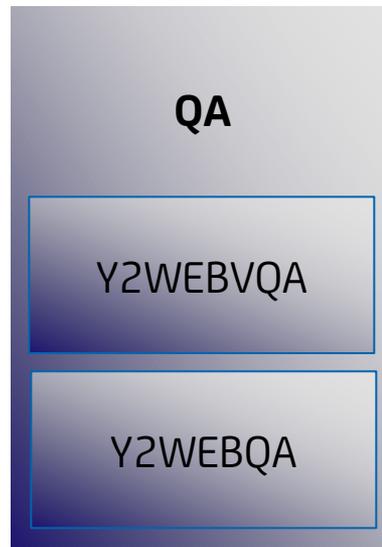
Web Option prior to r8.5

- Shipped as 2 libraries
 - Y2WEB -programs and non-LDO data
 - Y2WEBVENG - LDO data
- Lots of the stuff in Y2WEBVENG wasn't really LDO
 - Significant duplication when creating Y2WEBVxxx libraries
 - Unnecessary translation
- Problems with CCSID conversion
 - Hard-coded variant characters in skeletons
 - #000000 (color attributes)
 - <!-- (HTML comments)

Web Option prior to r8.5

- Each 'copy' of the Web Option server requires duplicates of both libraries
- Duplication of effort
 - Fixes have to be applied to all copies
 - Multiple copies of same program
 - Upgrade woes ☹️
- Not always clear which 'copy' of Web Option is which
- Terminology problems
 - 'copy', 'instance', 'environment'...

Web Option prior to r8.5



Web Option prior to r8.5

- Nevertheless a great product!
- Lots of customers
 - Manufacturing
 - Logistics
 - Insurance
 - Local & state governments
- Fully backed by CA
 - Not just some fly-by-night web-enablement.. 😊
 - No requirement to change existing applications
 - Fully integrated with CA 2E model environment

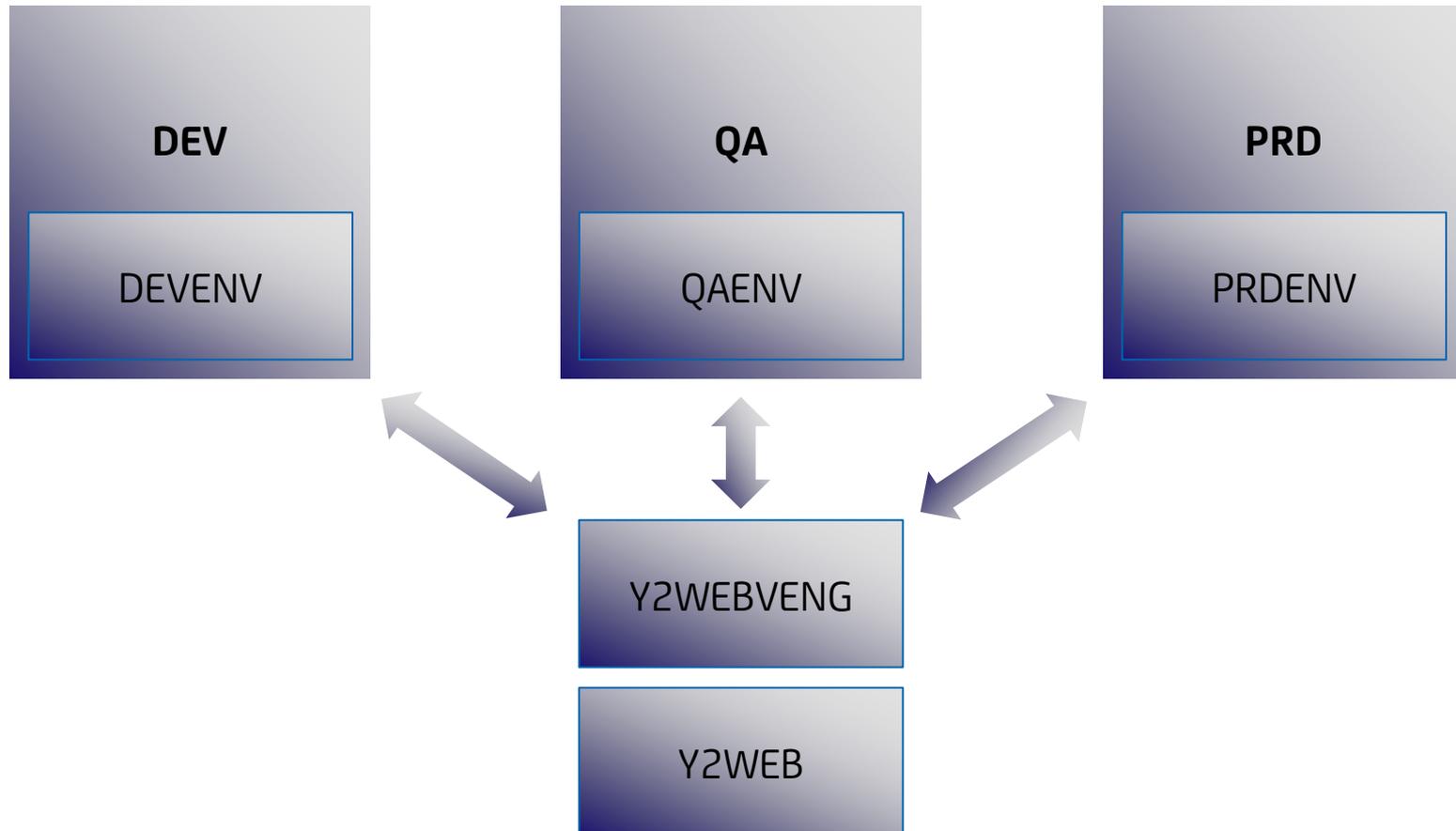
how things changed at r8.5

how things changed at r8.5

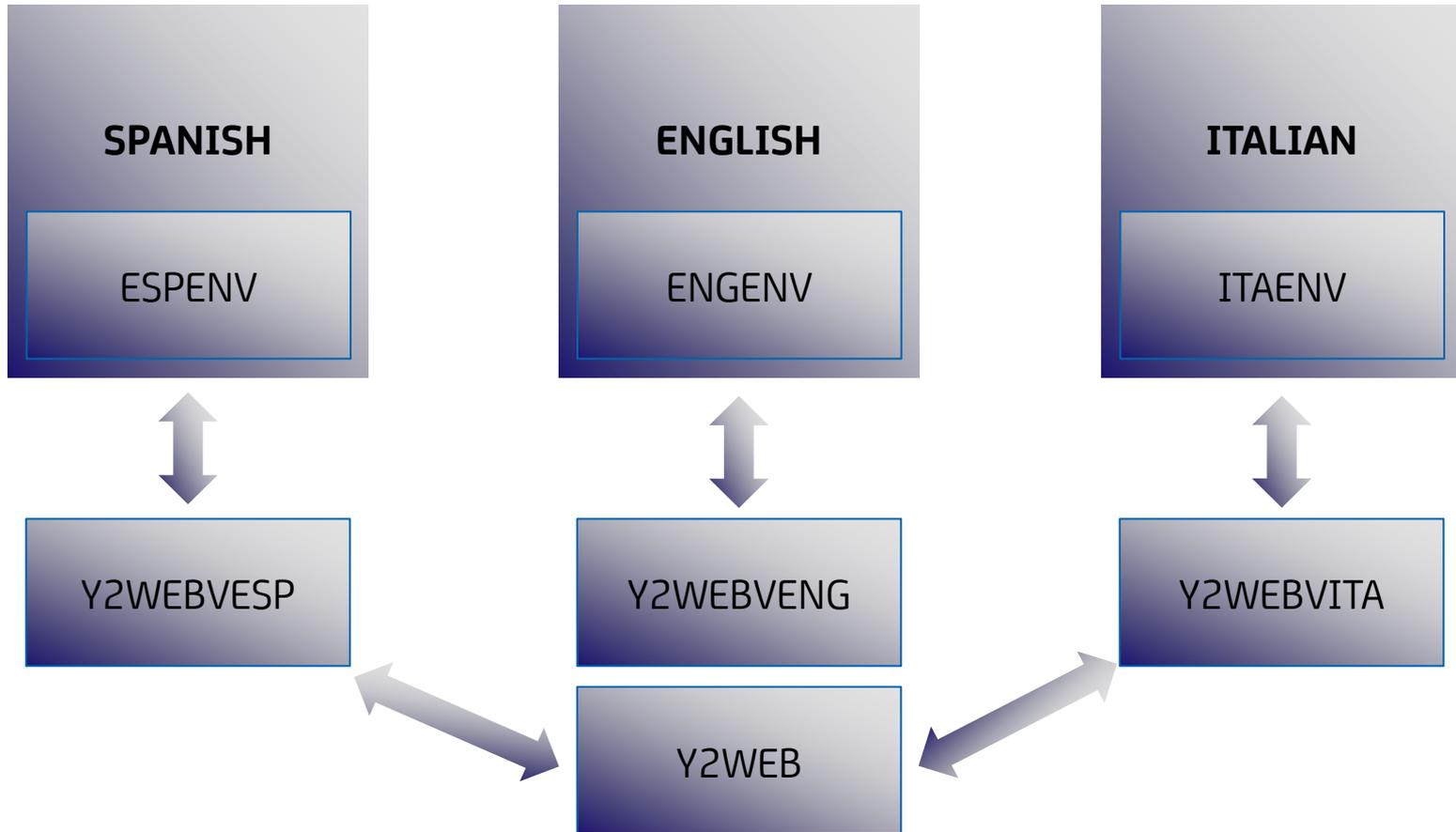
Release 8.5 came out in 2009

- Web Option environments
 - Similar to the concept of a 2E model
 - Uses an 'environment data library'
 - Separation of system data and user data
- Data override processing
 - Environment data overrides system data
 - only require changed records in environment
- Simpler upgrade processing
 - Upgrades from r8.5 onwards won't touch environment data
- Several PTF's since GA

how things changed at r8.5



how things changed at r8.5



how things changed at r8.5

- Pre-r8.5 used a single Web Option router in Y2WEB
 - Multiple HTTP server instances – one per Y2WEB* copy

Pre-r8.5 HTTP configuration

```
Browse : /www/y2web86/conf/httpd.conf
Record : 28 of 41 by 14 Column : 1 59 by 79
Control : _____

.....1.....2.....3.....4.....5.....6.....7.....
</Directory>

<Directory /webopt/>
Allow From all
</Directory>

<Directory /QSYS.LIB/Y2WEB.LIB/>
Options +ExecCGI
CGIConvMode %%EBCDIC/MIXED%%
Allow From all
</Directory>

AliasMatch ^/web2edoc/(.*) /webopt/$1
ScriptAliasMatch ^/web2e$ /qsys.lib/y2web.lib/yrouter.lib
*****End of Data*****

F3=Exit F10=Display Hex F12=Exit F15=Services F16=Repeat find
F19=Left F20=Right
```

how things changed at r8.5

- Pre-r8.5 used a single Web Option router in Y2WEB
 - Multiple HTTP server instances – one per Y2WEB* copy
- At r8.5, we use a copy of Web Option router
 - Specified in the environment library
 - Updated with latest shipped version on upgrade
 - One HTTP server instance can be used for many environments

r8.5 HTTP configuration

```
Browse : /www/y2web86/conf/httpd.conf
Record : 31 of 44 by 14 Column : 1 61 by 79
Control : _____

.....1.....2.....3.....4.....5.....6.....7.....
Allow From all
</Directory>

<Directory /QSYS.LIB/ITAENV.LIB/>
Options +ExecCGI
CGIConvMode %%EBCDIC/MIXED%%
Allow From all
</Directory>

AliasMatch ^/web2edoc/(.*) /webopt/$1
ScriptAliasMatch ^/web2e$ /qsys.lib/engenv.lib/yrouter.lib
ScriptAliasMatch ^/web2e-en$ /qsys.lib/engenv.lib/yrouter.lib
ScriptAliasMatch ^/web2e-es$ /qsys.lib/espenv.lib/yrouter.lib
ScriptAliasMatch ^/web2e-it$ /qsys.lib/itaenv.lib/yrouter.lib
*****End of Data*****

F3=Exit F10=Display Hex F12=Exit F15=Services F16=Repeat find
F19=Left F20=Right
```

r8.5 HTTP configuration

```
Browse : /www/y2web86/conf/httpd.conf
Record : 31 of 44 by 14 Column : 1 61 by 79
Control : _____

....+....1....+....2....+....3....+....4....+....5....+....6....+....7....+....
Allow From all
</Directory>

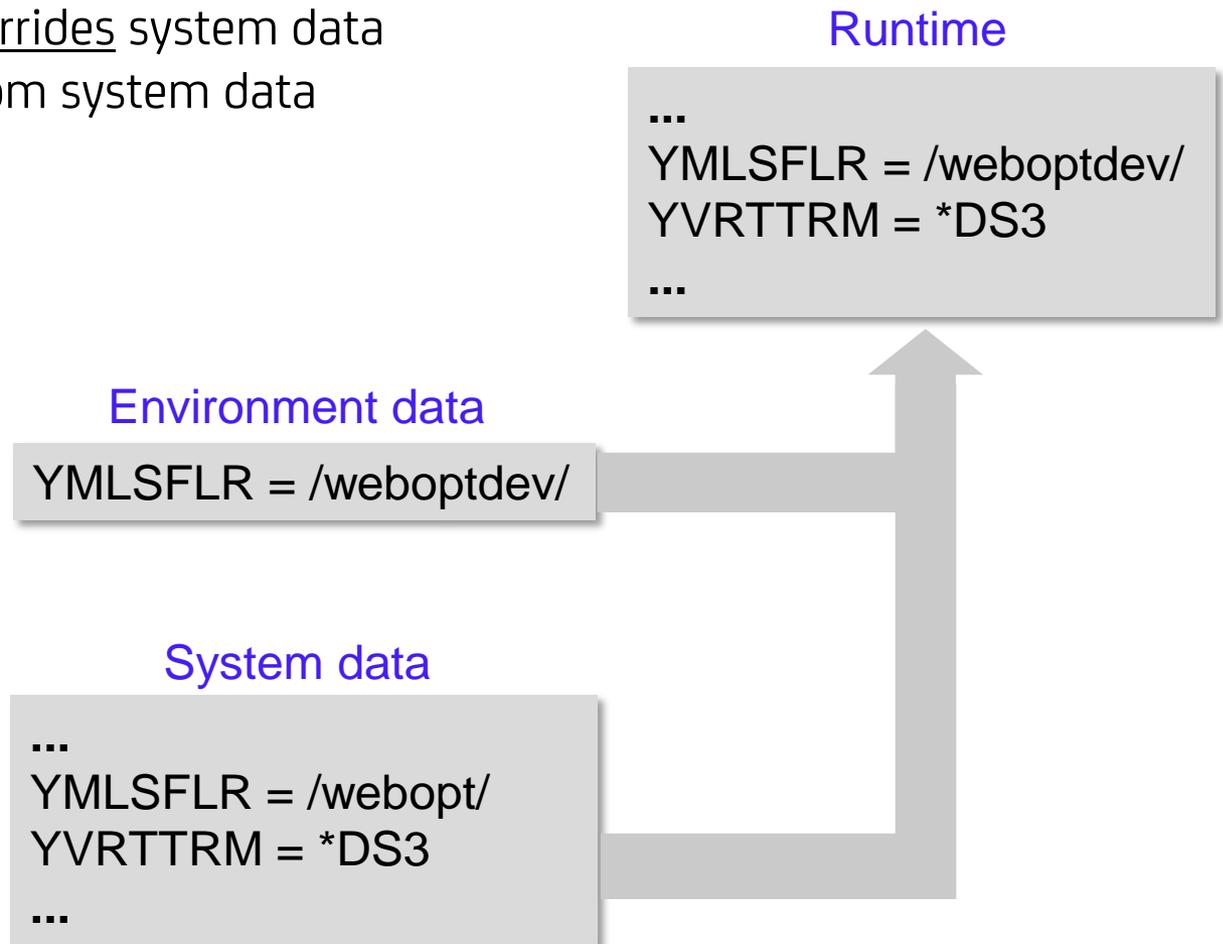
<Directory /QSYS.LIB/ITAENV.LIB/>
Options +ExecCGI
CGIConvMode %%EBCDIC/MIXED%%
Allow From all
```

```
AliasMatch ^/web2edoc/(.*) /webopt/$1
ScriptAliasMatch ^/web2e$ /qsys.lib/engenv.lib/yrouter.lib
ScriptAliasMatch ^/web2e-en$ /qsys.lib/engenv.lib/yrouter.lib
ScriptAliasMatch ^/web2e-es$ /qsys.lib/espenv.lib/yrouter.lib
ScriptAliasMatch ^/web2e-it$ /qsys.lib/itaenv.lib/yrouter.lib
```

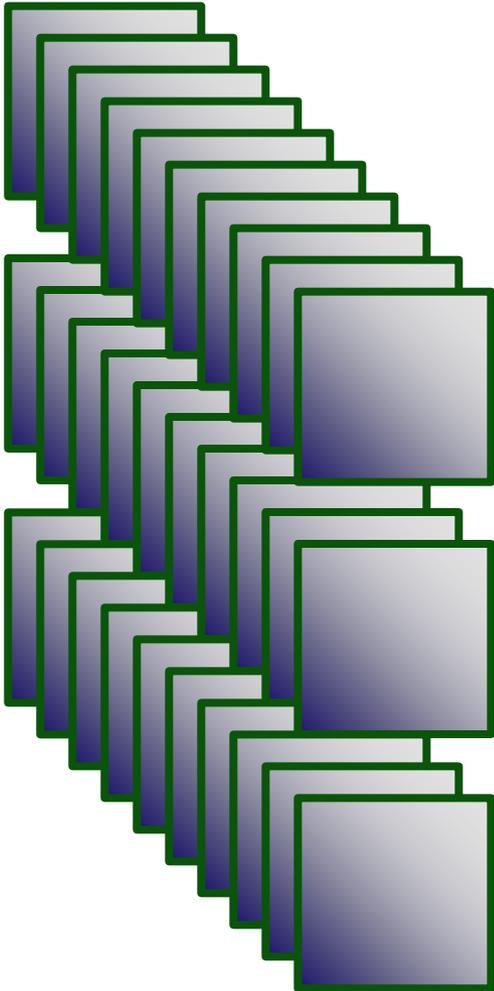
```
F3=Exit F10=Display Hex F12=Exit F15=Services F16=Repeat find
F19=Left F20=Right
```

r8.5 data override processing

Environment data overrides system data
Most records come from system data



r8.5 server job increase

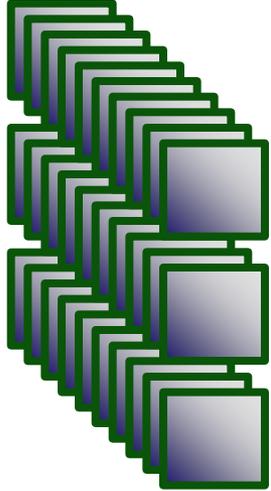


Prior to r8.5, Web Option allowed a maximum of **30** server jobs...

...which sounds like a lot...

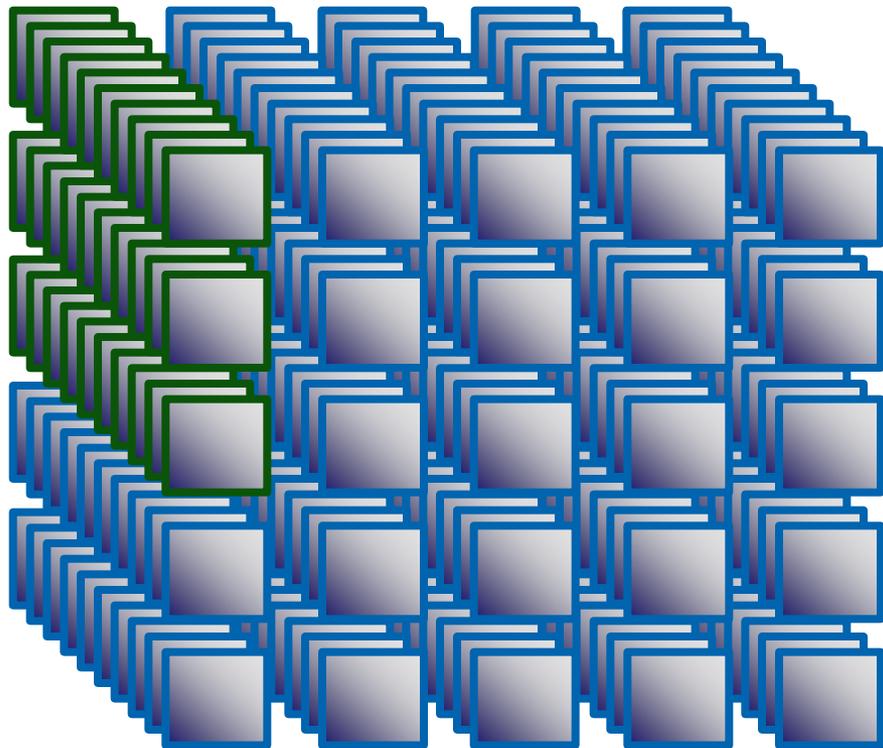
...but isn't enough if you have a BIG Web Option installation...

r8.5 server job increase



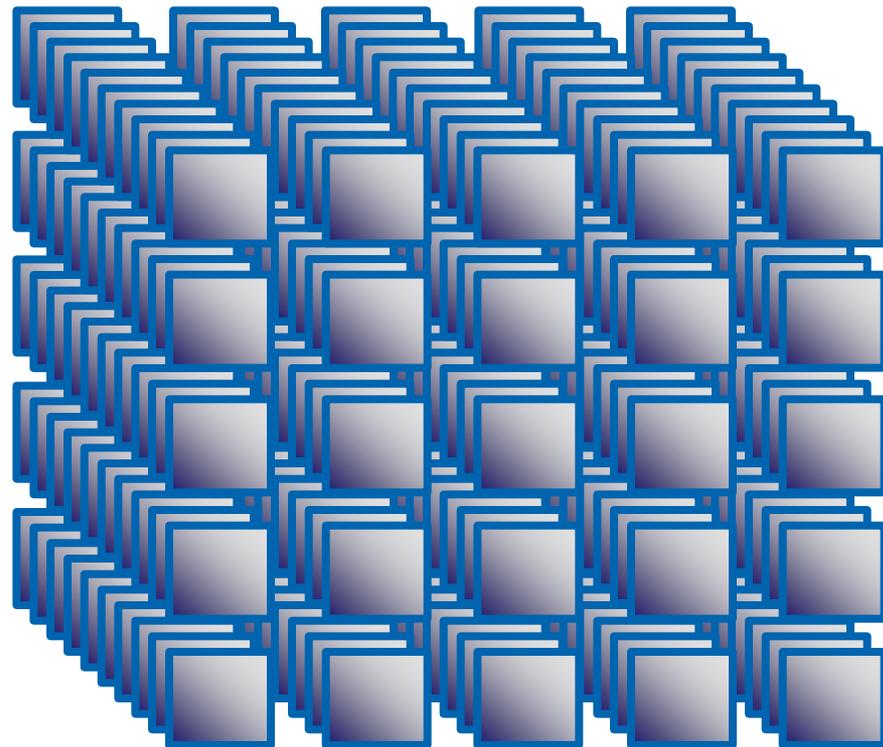
...so we increased it...

r8.5 server job increase



...to **500**

...so we increased it...



how things changed at r8.5

- Better DBCS support
 - Support for all variables being DBCS-mixed
- New YSKLCHK control value (in PTF)
 - Specifies how often to check if skeletons have been changed
 - **Big** improvement to runtime performance
- Improved confirm prompt processing
 - Fully handled in client-side JavaScript
- Improved data caching
- YGENMLS changed to flush memory
 - Always uses latest control values from file

how things changed at r8.5

- Service Program Diagnostic Load Utility (SPDLU)
 - Allows user or CA support to quickly diagnose *SRVPGM errors
- IPv6 compatibility
- Runtime test fix library installation
 - Allows quick and easy testing of supplied PTF's and test fixes
- Field-level right-click (context) menu
 - Allows right-click options at field- or record-level
 - Supplied as single JavaScript file yctxmnu.js
 - Minor element customization changes to implement



CA 2E

UUANEFR

CHANGE

5/26/11

21:50:24

Edit Customer

Customer number .

Type options, press Enter.

A=Assign D=Drop from support R=Reassign V=Validate 4=Delete

Opt	Customer number	Cust pfx	Customer first name		
<input type="checkbox"/>	1	Mr	Rory		
<input type="checkbox"/>		Hewitt		Jr	10197
<input type="checkbox"/>		Mr	Simon		
<input type="checkbox"/>		Cockayne		Jr	10197
<input type="checkbox"/>		Ms	Pauline		
<input type="checkbox"/>		Cox		!	10195

Enter **Page Up** **Page Down** **Exit** **Add/Change**

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A=Assign D=Drop from support R=Reassign V=Validate 4=Delete

Opt	Customer number	Cust pfx
<input type="checkbox"/>	1	Mr
<input type="checkbox"/>	2	Hewitt
<input type="checkbox"/>		Mr
<input type="checkbox"/>		Cock
<input type="checkbox"/>		Ms
<input type="checkbox"/>		Cox

A=Assign
D=Drop from support
R=Reassign
4=Delete

future enhancements

future enhancements (not confirmed)

- Single instance of data loaded into memory
 - Significantly reduced CPU usage & overall 'footprint'
 - Reduced start-up time
- Improved MLS data generator/editor
 - Easier to separate user/system data
- Further element customization improvements
- Improved client-side processing
 - HTML 4.0-compliancy
 - Extended use of CSS and JavaScript
 - Allow dynamic JavaScript libraries

Finally...

- You'll all be glad to hear that we have a new Development machine
 - Bigger – all our stuff takes up about 10% of entire disk space!
 - Faster – CPU-tastic!!
 - Better – we're not sharing with other teams!!!
- Release 8.6 will be available for V5R4 onwards

thank you