



Why “i” for UNIX?

Run OS/400 and UNIX applications on the same server

IBM @server i5 servers are based on IBM POWER5 processors supporting advanced dynamic partitioning, virtualization and management innovations. These IBM Virtualization Engine system technologies enable i5 servers to run multiple operating systems and application environments simultaneously – including IBM i5/OS (the next generation of IBM operating System/400), Linux®, IBM AIX 5L, Microsoft® Windows® Server 2003, Java™, WebSphere and Lotus Domino software.



Simplify administration and reduce costs

Use fewer servers. A single partition acts as a completely separate OS/400, Linux, or AIX 5L server. With the capacity to support up to ten dynamic logical partitionings (LPARs) per processor (and up to 254 LPARs in a single server), i5 servers can help simplify IT infrastructures by allowing companies to deploy new applications and consolidate operations onto a single server.

- *Deploy new applications faster – no need to buy a new separate server, just create a new LPAR*
- *Reduce your server maintenance costs by having less servers*
- *Redeploy IT staff to higher value activities.*

This can help cut operational costs, improve availability management and enhance service levels.

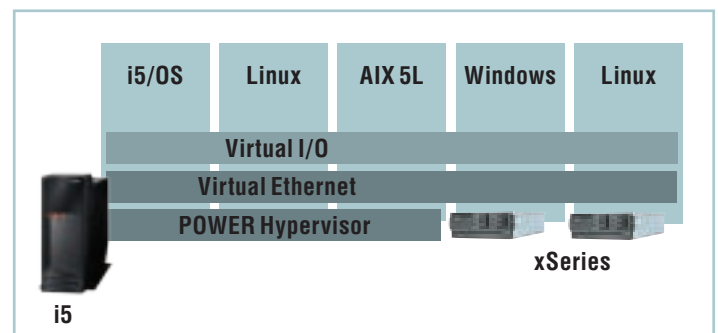
Simplify storage and back up

Not only can you manage your processors as a single resource, but you can also treat storage in the same way. By consolidating your storage onto a single platform you can:

- *Manage a single storage pool for UNIX®, OS/400, Linux and Windows without needing a SAN*
- *Have a single tape back up facility for UNIX and OS/400 (as well as Linux and Windows)*
- *Simplify IT operations and reduce costs*
- *Provide a consistent level of service across all systems (whether DR, HA, or Back up).*

Reduce software costs

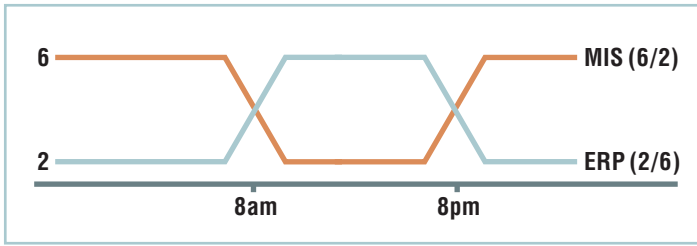
Built on IBM POWER5 processors, the i5 servers offer excellent application performance. In most instances this means that fewer processors will be required to run your UNIX application than on other vendors' systems. Thus where your application software is licensed on a per processor basis, i5 offers you the ability to substantially reduce your software acquisition and software maintenance costs.



Improve performance and use less hardware

LPAR enables i5 servers to adjust pooled processor resources automatically between AIX, OS/400 and Linux partitions to help handle high transaction volumes.

That means that if your OS/400 ERP application is busy in the day and your AIX Management Information System is busy during the night, they can share resources, meaning you require less computing power. In this example using 8 processors instead of 12 – keeping acquisition and maintenance costs down.



Rationalise, secure and speed up your LAN

Using the i5 Virtual LAN, OS/400 and UNIX partitions can communicate without needing to 'leave the box'.

- Simplify the network – remove or free up routers and switches
- Secure your LAN – it is impossible to 'sniff' communications via the VLAN
- The VLAN operates at 1Gbit and can support over 4,000 virtual ethernet connections.

But will AIX run normally on an iSeries?

Yes. AIX on the IBM @server iSeries is exactly the same as AIX on a IBM @server pSeries server. All applications certified for AIX 5L will run on an iSeries.

But won't it cost more to do it this way?

No. Running AIX on an iSeries will cost about the same as it would on a pSeries server – the hardware is essentially the same. In fact, as discussed your acquisition costs and ongoing management costs should be less as a result of the consolidation benefits.

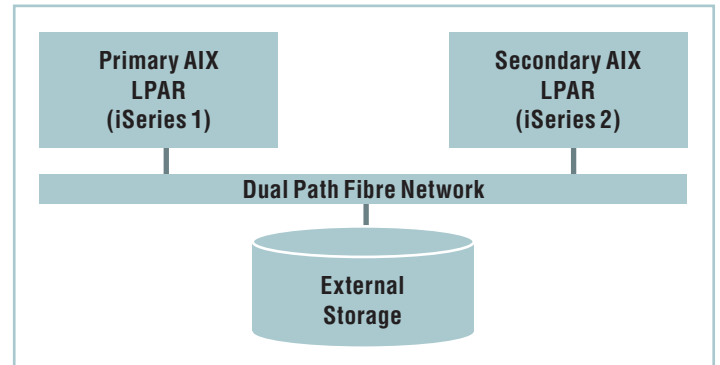
I use a different UNIX platform. Won't it be too difficult to move?

Talk to us. We'll work with you to check application support for AIX, to train your people, and to plan the move.

High availability for AIX on iSeries

Those familiar with AIX implementations will want to know how high availability configurations are delivered with AIX on the iSeries.

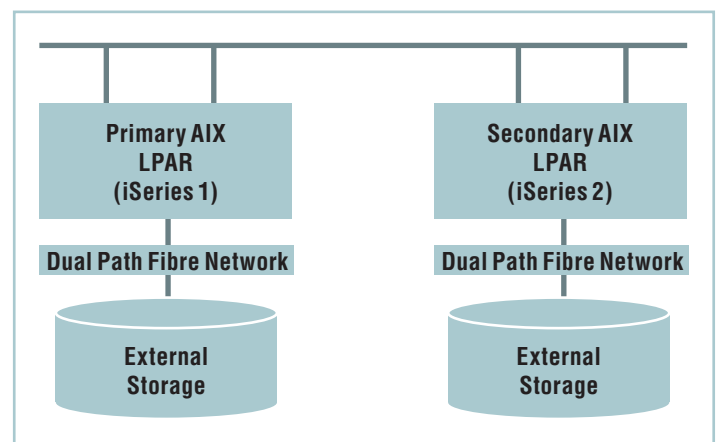
Essentially it is the same as on an IBM pSeries server, but cannot be achieved with iSeries Internal disk – some kind of external storage must be utilised.



(1) In this scenario, the Primary AIX LPAR owns the 'shared disk' and in the event of a failure on that LPAR, the Secondary LPAR (which would be on a different iSeries server) takes over.

Depending on your needs, you may base your configuration entirely on external disk, or if it suits you – use a combination of internal and external storage.

Here is the high availability set up for separate sites:



(2) In this second scenario, the high availability cluster is delivered across an extended distance, with the other half of the cluster offsite, but connected by a high speed network. The data is effectively mirrored across the two external storage devices.



Monthly iSeries 'in touch' Events

Also, why not register for one of our free monthly iSeries briefings where we provide a product update and demonstrate many of the latest iSeries capabilities including:

- *IBM Workplace on iSeries*
- *Domino 7 on iSeries*
- *Web enabling iSeries applications with WebSphere*
- *Running AIX and Linux on iSeries*
- *Integrating Windows servers with iSeries.*

To see the agenda, forthcoming dates, and to register, please visit:

ibm.com/uk/news/events/intouch

Further information

To find out more about running UNIX on iSeries, please visit: **ibm.com/iseries/aix**

For general information about iSeries please visit the following site which also contains information on how to contact an IBM representative: **ibm.com/servers/uk/eserver/iseries/**

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