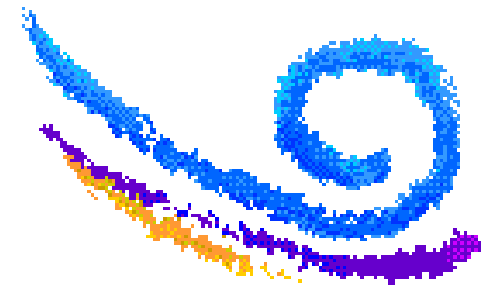


New Tricks for Old Dogs

Modern IBM Mainframes - Hardware

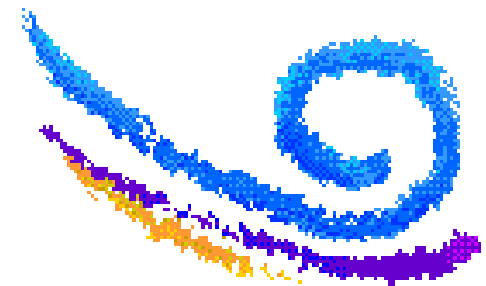
Modern IBM Mainframes - 1994-2004

- ▶ Processors have increased in power by a factor of 30
- ▶ The number of processors that can be tied together in a sysplex (single system image of connected mainframes) is 1,024
 - And you can connect sysplexes together!



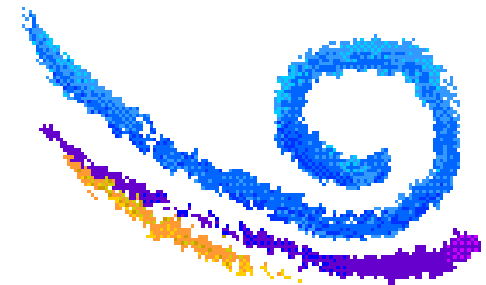
Modern IBM Mainframes - 1994-2004

- ▶ Processors are now 64-bit addressing machines
- ▶ I/O bandwidth has increased dramatically
- ▶ Hardware costs have plummeted
- ▶ Reliability and security remain the best in the industry



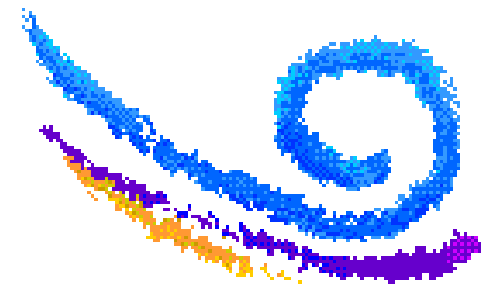
Modern IBM Mainframes - New Capabilities

- ▶ Run Linux native or as a guest under z/VM
- ▶ Run UNIX under MVS
 - Well, MVS is now z/OS - see other presentations
- ▶ Run Intranet / Internet / Web Applications on your mainframe
 - Data and code on same box => better performance
- ▶ Fewer boxes => smaller support staff



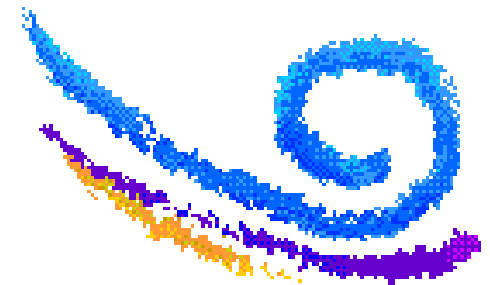
Modern IBM Mainframes - New Capabilities

- ▶ Instruction set has been radically enhanced
 - 64-bit addresses
 - 64-bit integers
 - IEEE floating point (and previous format still supported)
 - 16 floating point registers
 - Instructions to work with ASCII and Unicode - Web friendly
 - Relative branch instructions (fewer base registers needed per program)
 - Much more



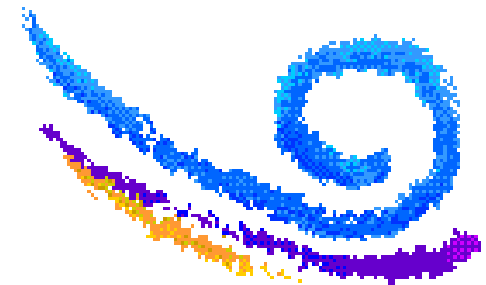
Modern IBM Mainframes - The Bonus

- ▶ Existing applications still run
 - Continuing to return value on the original investment
- ▶ Some mainframe application code is still in production 30 years after initial deployment
 - Try that on your UNIX or Wintel boxes



Modern IBM Mainframes - Cashing In

- ▶ Most effective use of your IT dollars...
 - Use facilities already on the mainframe you have in house
 - Upgrade to the current hardware (z/Architecture) and software (z/OS) to use new facilities
 - Train your current mainframe staff on updated and new facilities
 - They know your business and your data
 - Inspire them by your commitment to them





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