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EPICS, Linux & NUMA I/O: an example

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An EPICS soft IOC that running under Linux and doing significant I/O can need system and application tuning for NUMA (Non-Uniform Memory Access) to use the hardware efficiently. I present an example of an IOC that uses 2x10Gb Ethernet for I/O and has been tuned for a current generation Dell server using Intel CPUs. The parameters for tuning the I/O are device interrupt CPU affinity and application CPU affinity. These settings may be generalised to other devices and EPICS applications.

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