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| is142s09@oak:~$ lscpu  Architecture: x86\_64  CPU op-mode(s): 32-bit, 64-bit  Byte Order: Little Endian  Address sizes: 40 bits physical, 48 bits virtual  CPU(s): 8  On-line CPU(s) list: 0-7  Thread(s) per core: 1  Core(s) per socket: 4  Socket(s): 2  NUMA node(s): 2  Vendor ID: GenuineIntel  CPU family: 6  Model: 44  Model name: Intel(R) Xeon(R) CPU E5620 @ 2.40GHz  Stepping: 2  CPU MHz: 1596.554  BogoMIPS: 4788.52  Virtualization: VT-x  L1d cache: 256 KiB  L1i cache: 256 KiB  L2 cache: 2 MiB  L3 cache: 24 MiB  NUMA node0 CPU(s): 0,2,4,6  NUMA node1 CPU(s): 1,3,5,7 |

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| is142s09@oak:~$ numactl --hardware  available: 2 nodes (0-1)  node 0 cpus: 0 2 4 6  node 0 size: 24062 MB  node 0 free: 21080 MB  node 1 cpus: 1 3 5 7  node 1 size: 24149 MB  node 1 free: 18562 MB  node distances:  node 0 1  0: 10 21  1: 21 10 |

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| is142s09@oak:~$ ibstat  CA 'mlx4\_0'  CA type: MT26428  Number of ports: 1  Firmware version: 2.9.1000  Hardware version: b0  Node GUID: 0x0002c903000e5138  System image GUID: 0x0002c903000e513b  Port 1:  State: Active  Physical state: LinkUp  Rate: 40  Base lid: 1  LMC: 0  SM lid: 1  Capability mask: 0x0251086a  Port GUID: 0x0002c903000e5139  Link layer: InfiniBand |

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| $ sinfo  PARTITION AVAIL TIMELIMIT NODES STATE NODELIST  debug\* up 20:00 4 idle oak-cn[2-5]  release up 10-00:00:0 4 idle oak-cn[2-5]  $ scontrol show nodes  NodeName=oak-cn2 Arch=x86\_64 CoresPerSocket=4  CPUAlloc=0 CPUEfctv=8 CPUTot=8 CPULoad=0.00  AvailableFeatures=(null)  ActiveFeatures=(null)  Gres=(null)  NodeAddr=192.168.31.2 NodeHostName=oak-cn2 Version=24.05.3  OS=Linux 5.4.0-198-generic #218-Ubuntu SMP Fri Sep 27 20:18:53 UTC 2024  RealMemory=24000 AllocMem=0 FreeMem=22292 Sockets=2 Boards=1  State=IDLE ThreadsPerCore=1 TmpDisk=0 Weight=1 Owner=N/A MCS\_label=N/A  Partitions=debug,release  BootTime=2024-10-26T08:01:23 SlurmdStartTime=2024-10-26T08:04:46  LastBusyTime=2024-10-30T17:17:32 ResumeAfterTime=None  CfgTRES=cpu=8,mem=24000M,billing=8  AllocTRES=  CurrentWatts=0 AveWatts=0  NodeName=oak-cn3 Arch=x86\_64 CoresPerSocket=4  CPUAlloc=0 CPUEfctv=8 CPUTot=8 CPULoad=0.16  AvailableFeatures=(null)  ActiveFeatures=(null)  Gres=(null)  NodeAddr=192.168.31.3 NodeHostName=oak-cn3 Version=24.05.3  OS=Linux 5.4.0-198-generic #218-Ubuntu SMP Fri Sep 27 20:18:53 UTC 2024  RealMemory=24000 AllocMem=0 FreeMem=22296 Sockets=2 Boards=1  State=IDLE ThreadsPerCore=1 TmpDisk=0 Weight=1 Owner=N/A MCS\_label=N/A  Partitions=debug,release  BootTime=2024-10-26T08:01:28 SlurmdStartTime=2024-10-26T08:04:37  LastBusyTime=2024-10-30T17:12:24 ResumeAfterTime=None  CfgTRES=cpu=8,mem=24000M,billing=8  AllocTRES=  CurrentWatts=0 AveWatts=0  NodeName=oak-cn4 Arch=x86\_64 CoresPerSocket=4  CPUAlloc=0 CPUEfctv=8 CPUTot=8 CPULoad=0.01  AvailableFeatures=(null)  ActiveFeatures=(null)  Gres=(null)  NodeAddr=192.168.31.4 NodeHostName=oak-cn4 Version=24.05.3  OS=Linux 5.4.0-198-generic #218-Ubuntu SMP Fri Sep 27 20:18:53 UTC 2024  RealMemory=24000 AllocMem=0 FreeMem=22299 Sockets=2 Boards=1  State=IDLE ThreadsPerCore=1 TmpDisk=0 Weight=1 Owner=N/A MCS\_label=N/A  Partitions=debug,release  BootTime=2024-10-26T08:01:23 SlurmdStartTime=2024-10-26T08:04:39  LastBusyTime=2024-10-30T17:12:25 ResumeAfterTime=None  CfgTRES=cpu=8,mem=24000M,billing=8  AllocTRES=  CurrentWatts=0 AveWatts=0  NodeName=oak-cn5 Arch=x86\_64 CoresPerSocket=4  CPUAlloc=0 CPUEfctv=8 CPUTot=8 CPULoad=0.00  AvailableFeatures=(null)  ActiveFeatures=(null)  Gres=(null)  NodeAddr=192.168.31.5 NodeHostName=oak-cn5 Version=24.05.3  OS=Linux 5.4.0-198-generic #218-Ubuntu SMP Fri Sep 27 20:18:53 UTC 2024  RealMemory=24000 AllocMem=0 FreeMem=22296 Sockets=2 Boards=1  State=IDLE ThreadsPerCore=1 TmpDisk=0 Weight=1 Owner=N/A MCS\_label=N/A  Partitions=debug,release  BootTime=2024-10-26T08:01:22 SlurmdStartTime=2024-10-26T08:04:28  LastBusyTime=2024-10-30T17:12:25 ResumeAfterTime=None  CfgTRES=cpu=8,mem=24000M,billing=8  AllocTRES=  CurrentWatts=0 AveWatts=0 |