Advanced Numerical Methods in Python

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Project 3: Dirichlet-Neumann iteration and MPI
Moore’s Law

Microprocessor Transistor Counts 1971-2011 & Moore’s Law

Curve shows transistor count doubling every two years.
from mpi4py import MPI
comm = MPI.COMM_WORLD
rank = comm.Get_rank()
nprocessors = comm.Get_size()
print "hello world from process", rank
Comm.Send(buf, dest = 0, tag = 0)

Comm (MPI comm) communicator
buf data to send
dest (integer) rank of destination
tag (integer) message tag
Comm.Recv(buf, source = 0, tag = 0, Status status = None)

Comm (MPI comm) communicator
buf initial address of receive buffer
source (integer) rank of source
tag (integer) message tag
status (Status) status of object