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Semi-partitioned scheduling and task migration in dataflow networks

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List of abbreviations

ALAP	As late as possible
API	Application programming interface
BE	Best-Effort
BF	Best-Fit
BFD	Best-Fit Decreasing
CSDF	Cyclo-Static Dataflow
DCT	Discrete cosine transform
DM	Data Memory
DMA	Direct Memory Access
DPM	Dynamic Power Management
DSE	Design Space Exploration
EDF	Earliest Deadline First
EDF-fm	Earliest Deadline First with fixed and migrating tasks
EDF-ssl	Earliest Deadline First based semi-partitioned stateless
FF	First-Fit
FFD	First-Fit Decreasing
FFD-SP	First-Fit Decreasing followed by semi-partitioning
FIFO	First-in First-out
FPGA	Field-programmable gate array
GEDF	Global EDF
GT	Guaranteed throughput
HRT	Hard Real-Time
HSDF	Homogeneous Synchronous Dataflow
IM	Instruction Memory
IP	Input Port
JPEG	Joint Photographic Experts Group
KPN	Kahn Process Network
LLF	Least Laxity First
MCM	Maximum Cycle Mean
MJPEG	Motion JPEG
MoC	Model of Computation
MPI	Message Passing Interface
MPSoC	Multiprocessor System-on-Chip
MW	Middleware

NI	Network Interface
NoC	Network-on-Chip
NP	Non-deterministic Polynomial-time
OP	Output Port
OS	Operating System
PE	Processing Element
PEDF	Partitioned EDF
PM	Power Management
PPN	Polyhedral Process Network
PWM	Pulse Width Modulation
SANLP	Static Affine Nested Loop Program
SDF	Synchronous Dataflow
SRT	Soft Real-Time
TDMA	Time Division Multiple Access
VFS	Voltage/Frequency Scaling
VLE	Variable-length encoding
WCET	Worst-Case Execution Time
WF	Worst-Fit
WFD	Worst-Fit Decreasing