

Dimension Group			Workload Placement Strategies																		Cost Estimation					Heterog. Code Management							
Dimensions			Plmt. Strategy		Off-chip Cache Policy			Plmt. Granularity						Plmt. Time			Plmt. Decision			Plmt. Pred. Model			Monitored Metrics				GPU Prog. Method						
Features	Year	Link	Data shipping	Function shipping	Semantic-aware	Frequency-based	Greedy	No caching	Job	Application	Pipeline	Task	Function	Segment	Bit	Runtime	Compilation time	Hybrid	Automatic	Semi-automatic	Manual	Cost model	Heuristic model	Learn model	Latency	Throughput	Energy consumption	Price	Kernel template	Compiler	Raw kernel		
Qilin	2009	[url]	x				x					x				x				x				x	x		x				x		
StarPU	2009	[url]	x				x					x				x				x			x	x						x			
GDB	2009	[url]	x					x				x					x			x		x										x	
Kerr et al.@ASPLOS'10	2010	[url]	x					x		x							x			x				x	x					x	x		
Ravi et al.@ICS'10	2010	[url]	x					x				x				x				x			x		x						x		
Heterogeneous Linpack	2010	[url]	x					x				x				x				x			x		x					x			
MEGHA	2011	[url]	x					x				x				x				x		x			x						x		
Rectangle method	2011	[url]	x					x						x			x			x			x	x	x							x	
Grewe and O'Boyle@CC'11	2011	[url]	x					x				x					x			x				x	x							x	
Ravi et al.@CCGRID'12	2012	[url]	x					x	x								x			x			x		x	x				x			
Pirk@VLDBW'12	2012	[url]	x					x							x		x			x			x		x							x	
SnuCL	2012	[url]	x				x					x				x				x			x		x	x						x	
SCCG	2012	[url]	x					x			x							x		x			x		x	x						x	
GreenGPU	2012	[url]	x					x				x				x				x			x		x		x					x	
DAGuE	2012	[url]	x					x				x				x				x			x		x	x						x	
AHP	2012	[url]	x					x			x								x	x					x							x	
Clarke et al.@Euro-Par'12	2012	[url]	x					x				x				x				x		x								x			
MC-MOC	2012	[url]	x					x				x				x						x										x	
Legion	2012	[url]	x					x				x						x				x										x	
Extended TOTEM	2013	[url]	x					x				x					x					x					x					x	
Kofler et al.@ICS'13	2013	[url]	x					x				x						x						x	x							x	
SKMD	2013	[url]	x					x				x				x				x				x	x							x	
A&R	2014	[url]	x			x									x		x			x				x								x	
Cumming et al.@SC'14	2014	[url]	x				x			x							x				x			x			x					x	
Ocelot+HyPE	2014	[url]	x			x						x				x				x				x	x							x	
Cheng et al.@DaMoN'15	2015	[url]	x					x				x					x				x		x		x							x	
Kamagel et al.@EDBTW'15	2015	[url]	x					x				x						x		x				x							x	x	
Dask	2015	[url]	x			x						x					x			x	x		x		x						x		
TensorFlow	2016	[url]	x				x					x					x			x	x		x		x		x				x		
HyGraph	2016	[url]	x				x									x				x	x	x	x		x							x	
Sirbu and Babaoglu@Euro-Par'16	2016	[url]	x					x	x								x			x		x		x			x						
Spark-GPU	2016	[url]	x				x					x								x			x		x							x	
SABER	2016	[url]	x					x		x							x			x						x						x	
Robust CoGaDB	2016	[url]		x			x					x					x			x				x	x					x		x	
Wen and O'Boyle@GPGPU-PPoPP'17	2017	[url]	x					x				x						x		x				x	x						x	x	
Caldera	2017	[url]	x					x		x								x		x			x		x		x					x	
Mayer et al.@DIDL'17	2017	[url]	x					x				x						x	x				x		x						x		
HERO	2017	[url]		x			x							x					x					x	x							x	
PyCOMPSs	2018	[url]	x					x				x					x			x		x		x						x	x		
Hierarchical Planner	2018	[url]	x					x				x					x			x				x	x					x			
Placeto	2018	[url]	x					x			x						x			x				x	x						x		
ADTS	2018	[url]	x					x				x					x			x				x	x							x	
Ray	2018	[url]	x				x					x						x				x		x		x					x		
GFlink	2018	[url]	x				x					x					x				x		x									x	
Gowanlock et al.@DaMoN'19	2019	[url]	x					x				x					x			x		x		x						x			
Troodon	2019	[url]	x					x	x								x			x				x	x	x						x	
PLB-HAC	2019	[url]	x					x				x							x					x	x							x	
PyTorch	2019	[url]	x				x										x			x	x		x		x		x					x	
HetExchange	2019	[url]	x					x				x							x	x			x		x		x					x	
Symphony	2020	[url]	x					x									x			x				x									
Crystal	2020	[url]	x					x		x							x				x	x	x					x				x	
MCL Schedulers	2020	[url]		x				x				x					x			x		x		x								x	
Lutz et al.@SIGMOD'20	2020	[url]	x					x				x							x	x				x		x						x	
LDWP-IAWP	2020	[url]	x					x						x					x					x	x	x					x		
ZeRO-Offload	2021	[url]	x					x				x					x			x			x		x	x					x		
Sigmoid	2021	[url]	x					x				x					x			x													x
Li et al.@J. Syst. Arch'2021	2021	[url]	x					x				x					x			x				x								x	
Lee and Park@ICDEW'21	2021	[url]	x					x				x					x				x		x									x	
RateupDB	2021	[url]	x				x												x				x		x							x	
READYs	2021	[url]	x					x				x					x			x				x	x							x	
Compressed Crystal	2022	[url]	x					x		x							x				x	x	x		x								