TABLE 1: The best and worst results of PERF. and MAPE/ μ RD in SMBO (DaL/DaL means the first is based on performance while the latter is based on accuracy). Abbreviation restricted to at most 3 words for model: DeepPerf-DeP, HINNPerf-HIP, SPLConquer-SPL, DCTART-DCT.

						(,	a) MAPE	and Perfor	mance							
System	BOCA ATConf Best Worst Best Worst		FLASH Best Worst		Otte: Best	rTune Worst	ResTune Best Worst		ROBO Best	Tune Worst	SMAC Best Worst		Tuneful Best Worst			
D															1	
Brotli LLVM	DT/RF HIP/RF	DaL/SVR DeP/GP	GP/DeP GP/LR	RF/GP RF/GP	SVR/DT DT/SPL	DT/SVR DT/SVR	DT/DEC DaL/LR	LR/SVR DeP/SVR	DaL/RF	SVR/HIP DEC/SVR	RF/RF DaL/HIP	SVR/HIP	RF/DEC DEC/RF	GP/SVR GP/GP	DaL/RF HIP/LR	SVR/HIP SVR/GP
LLV IVI LRZIP		GP/HIP	RF/RF	LR/HIP	DT/DT	DI/SVR DT/LR	DT/DT	GP/LR		SVR/HIP		SVR/GP SPL/HIP	RF/DT	GP/GP GP/LR	GP/RF	LR/HIP
XGBOOST	RF/DT	GP/SVR	GP/RF	DEC/DeP	DeP/HIP			SPL/SPL	GP/RF	SVR/SPL	RF/RF	LR/GP	DT/DT	GP/SVR	DeP/RF	LR/DeP
NOC-CM-LOG			RF/RF	GP/SVR	RF/DT	RF/GP	RF/DT	DaL/GP	DeP/DT	SPL/GP	DeP/RF	SVR/GP	DeP/DT	DaL/LR	HIP/DT	SVR/GP
DEEPARCH		SVR/SVR	HIP/RF	SPL/DeP		SPL/SVR	DaL/RF	GP/SVR	RF/RF	DT/SPL		SVR/DeP	,	DaL/SVR	DaL/RF	SVR/DeP
BDBC	LR/DEC	RF/SVR	GP/DaL	RF/HIP	DeP/DaL		DeP/DT	SVR/LR	GP/DaL	SVR/HIP		SVR/HIP	RF/DT	DaL/LR	HIP/DaL	
HSQLDB	SPL/DEC	DEC/SVR	GP/DT	DeP/SVR	DaL/RF	SVR/SVR	DaL/DT	SVR/SVR	SPL/DT	SVR/SVR	HIP/HIP	SVR/GP	DT/DT	GP/GP	SPL/DT	SVR/SVR
DCONVERT	GP/RF	DeP/SVR	GP/RF	SVR/SVR	DaL/HIP	SVR/SVR	DT/HIP	SVR/SVR	DaL/DeP	DT/GP	HIP/DeP	SVR/SPL	RF/DEC	SVR/SVR	DaL/DeP	GP/GP
7z	HIP/RF	GP/SVR	DaL/RF	RF/HIP		SPL/SVR	DeP/DEC		DaL/RF	GP/DeP	RF/RF	SPL/GP	DEC/DT	GP/SVR	DaL/RF	GP/DeP
APACHE		SVR/DeP		SVR/SVR	LR/LR	GP/DeP		SVR/DeP		SVR/HIP	DT/DEC	SPL/GP	RF/DEC	GP/DeP	DaL/DEC	
HSMGP	LR/HIP	GP/SVR	GP/RF	RF/SVR	HIP/HIP		DEC/HIP	SVR/SVR		DEC/DeP	HIP/DaL		HIP/DT	GP/SVR		DEC/DeP
MONGODB PostgreSQL		SVR/SVR	RF/RF DaL/DT	SVR/SVR	SPL/LR	SVR/SVR	DEC/LR DT/RF	SVR/SVR	DaL/RF RF/DT	DeP/DeP	HIP/RF DaL/HIP	SVR/GP	RF/LR DEC/SVR	SVR/SVR	LR/LR RF/DT	DeP/DeP
EXASTENCILS		GP/DeP GP/DeP	RF/RF	SVR/DeP SPL/SVR	DeP/DaL	SPL/SVR GP/LR	DeP/DaL	GP/DeP GP/SVR	GP/RF	SVR/GP LR/GP	GP/RF	SPL/GP SPL/GP	RF/RF	GP/DeP GP/SVR	RF/RF	SVR/GP SPL/GP
KANZI	SPL/RF	RF/LR	SVR/RF	RF/HIP	RF/DeP	GP/LR	DEC/DT	GP/LR	GP/RF	DEC/HIP		SVR/HIP	HIP/RF	GP/LR	SPL/RF	RF/HIP
JUMP3R	GP/RF	RF/LR	GP/RF	SVR/HIP	DeP/SPL		DT/DT	DeP/LR	GP/RF	RF/GP	RF/RF	SVR/GP	SVR/DT	DEC/LR	SPL/RF	DT/GP
MARIADB		DaL/SVR	GP/DaL	RF/SVR		DeP/SVR	DEC/DT	SVR/SVR	LR/DeP	SVR/SVR	DeP/DeP		DEC/DT	GP/SVR	DT/DeP	SPL/GP
POLLY	DEC/DT	GP/LR	- , -	SVR/HIP	DEC/DEC		HIP/DT	SVR/LR	DaL/SVR	GP/GP	RF/SVR	SVR/GP	RF/DT	GP/SVR	DaL/SVR	
SQL	SVR/SVR	DeP/LR	DeP/SVR	SVR/DT	SPL/DaL	SVR/LR	LR/SVR	DeP/LR	RF/SVR	GP/LR	RF/RF	SVR/LR	SPL/RF	SVR/DeP	RF/SVR	GP/LR
VP9	RF/DEC	GP/SVR	SPL/DEC	DT/SVR	LR/DEC	GP/SVR	DT/DEC	GP/SVR	SPL/DEC	GP/GP	RF/HIP	SVR/GP	DEC/DT	GP/SVR	SPL/DEC	GP/GP
Spark	DaL/RF	DeP/DeP	DT/RF	LR/SVR	RF/DaL	GP/DeP	RF/DEC	SPL/DeP	RF/RF	GP/GP	DaL/RF	SPL/GP	RF/DEC	GP/DeP	DaL/RF	SPL/GP
HIPACC	SVR/RF	GP/SVR	GP/RF	RF/SVR		DeP/SVR		SVR/SVR	SPL/RF	DeP/DeP	DaL/DaL		RF/RF	GP/SVR	SPL/RF	DeP/LR
REDIS		GP/DeP	DaL/GP	GP/DeP		SVR/DeP		LR/DeP	HIP/RF	RF/GP	SVR/SPL		DT/RF	GP/DeP	GP/SVR	SPL/GP
STORM	LR/RF	SVR/DT	GP/RF	RF/DT	RF/LR	RF/RF	GP/LR	DaL/DT	LR/RF	SVR/DT		SVR/DEC	DeP/RF	SVR/DT	DeP/RF	SPL/DT
SAC Hadoop		DaL/DeP SPL/DeP	DaL/RF DT/GP	SPL/SVR SPL/DeP	DaL/DEC GP/SVR	DeP/DeP DeP/DeP	HIP/DEC DT/SVR	RF/DeP RF/DeP	DT/RF DT/DeP	LR/LR DeP/GP	RF/DeP LR/DeP	SVR/SPL SVR/GP		DeP/DeP SVR/DeP	DeP/RF HIP/DeP	SPL/LR SPL/GP
TOMCAT		DaL/DeP	DT/RF	DaL/DeP		DeP/DeP		SVR/DeP	GP/RF	HIP/GP	RF/SVR	LR/GP	DEC/RF	GP/DeP	DaL/RF	LR/GP
IAVAGC	SPL/RF	DT/SVR	DeP/RF	GP/HIP	DEC/HIP		DEC/DEC		LR/RF	SVR/GP		SVR/HIP	RF/RF	GP/HIP	LR/RF	GP/LR
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System	Bo Best	OCA Worst	ATC Best	Conf Worst	FL:	ASH Worst		nd Perfori rTune Worst		Fune Worst	ROBO Best	Tune Worst	SM Best	IAC Worst	Tune Best	eful Worst
	Best	Worst	Best	Worst	Best	ASH Worst	Otte	rTune Worst	Res' Best	Worst	Best	Worst	Best	Worst	Best	Worst
System BROTLI LLVM						ASH Worst	Otte: Best	rTune	Res'	Worst SVR/DeP		Worst SVR/DeP			1	Worst
Brotli	Best DT/RF	Worst DaL/DeP	Best GP/DaL	Worst RF/DeP	Best SVR/DeP	Worst DT/DEC	Otte: Best	rTune Worst	Rest Best DaL/RF	Worst SVR/DeP	Best RF/RF	Worst SVR/DeP SVR/GP	Best RF/RF	Worst GP/DeP	Best DaL/DaL	Worst SVR/DeP
Brotli LLVM	DT/RF HIP/RF HIP/DT RF/RF	Worst DaL/DeP DeP/DeP	Best GP/DaL GP/LR RF/SVR GP/LR	Worst RF/DeP RF/GP LR/LR DEC/GP	Best SVR/DeP DT/LR	MOTST DT/DEC DT/DEC DT/LR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP	Tune Worst LR/SVR DeP/DeP	Rest Best DaL/RF	Worst SVR/DeP DEC/GP	Best RF/RF DaL/HIP	Worst SVR/DeP SVR/GP	Best RF/RF DEC/RF	Worst GP/DeP GP/DeP	Best DaL/DaL HIP/LR	Worst SVR/DeP SVR/GP LR/SPL
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG	Best DT/RF HIP/RF HIP/DT RF/RF RF/RF	DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP	Best GP/DaL GP/LR RF/SVR GP/LR RF/RF	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL	DT/DEC DT/DEC DT/LR GP/SVR RF/GP	DT/DaL DaL/LR DT/DT DeP/HIP RF/RF	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP	Rest Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DeP/DT	Worst GP/DeP GP/DeP GP/GP GP/SVR DaL/GP	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH	DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT	DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR	Best GP/DaL GP/LR RF/SVR GP/LR GP/LR RF/RF HIP/LR	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP	MSH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DeP/DT DT/DT	Worst GP/DeP GP/DeP GP/GP GP/SVR DaL/GP DaL/SVR	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC	DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF	Worst DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR RF/GP	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP DeP/HIP	MSH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR	DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT	Tune Worst LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DeP/DT DT/DT RF/DT	Worst GP/DeP GP/DeP GP/GP GP/SVR DaL/GP DaL/SVR DaL/GP	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB	DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT	Worst DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP DeP/HIP DaL/RF	MSH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR	DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DaL/DT	TTUNE Worst LR/SVR DEP/DEP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF	Worst GP/DeP GP/DeP GP/SVR DaL/GP DaL/SVR DaL/GP GP/GP	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEFPARCH BDBC HSQLDB DCONVERT	DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF	Worst DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR	Best GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP DeP/HIP DaL/RF DaL/HIP	MSH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DaL/DT DT/HIP	TTUNE Worst LR/SVR DEP/DEP GP/GP GP/GP SPL/SVR DAL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR	Rest Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP DaL/DeP	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF	Worst GP/DeP GP/DeP GP/GP GP/SVR DaL/GP DaL/SVR DaL/GP GP/GP SVR/SVR	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z	DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF HIP/RF	Worst DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR GP/SVR	Best GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP DeP/HIP DaL/RF DaL/HIP DeP/HIP	DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SPL/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DT/HIP DeP/DT	Tune Worst LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR GP/SVR	Rest Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP DaL/DeP DaL/RF	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP	Best RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF RF/RF DEC/RF	Worst GP/DeP GP/DeP GP/GP GP/SVR DaL/GP DaL/SVR DaL/GP GP/GP SVR/SVR GP/SVR	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP GP/GP GP/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE	Best DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP	Worst DaL/DeP DeP/DeP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR GP/SVR SVR/DeP	Best GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP	Best SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DEP/HIP DaL/RF DaL/HIP DeP/HIP LR/LR	DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DAL/DT DT/HIP DEP/DT HIP/HIP	Tune Worst LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR/SVR/SVR/SVR/SVR/SVR/SVR/SVR/SVR/SVR	Rest Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP DaL/DeP DaL/RF DaL/HIP	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP SVR/DeP	Best RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SPL/DeP	Best RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF DEC/RF RF/SPL	Worst GP/DeP GP/DeP GP/SVR DaL/GP DaL/SVR DaL/GP GP/GP GP/GP GP/GP GP/SVR GP/SVR GP/DeP	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DaL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z	Best DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP LR/HIP	Worst DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR GP/SVR	Best GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL	Worst RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP	Best SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP DeP/HIP DaL/RF DaL/HIP DeP/HIP	DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DT/HIP DeP/DT DEP/DT DEP/DT	Tune Worst LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR GP/SVR	Rest Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP DaL/DeP DaL/RF DaL/HIP	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP	Best RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/HIP	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SPL/DeP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF RF/RF DEC/RF	Worst GP/DeP GP/DeP GP/SVR DaL/GP DaL/SVR DaL/GP GP/GP SVR/SVR GP/SVR GP/DeP	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DaL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP GP/GP GP/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP	DEST DT/RF HIP/RF HIP/DT RF/RF RF/RF DEP/DT LR/RF SPL/DT GP/RF HIP/RF LR/HIP LR/HIP SPL/SPL	DaL/DeP DeP/DeP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR GP/SVR SVR/DeP GP/SVR SVR/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR GP/HIP RF/LR	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP RF/DeP	Best SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DeP/HIP DaL/RF DaL/HIP DaL/HIP LR/LR HIP/HIP SPL/LR	DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SPL/SVR GP/DeP GP/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DT/HIP DeP/DT DEP/DT DEP/DT	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP DaL/DeP DaL/RF DaL/HIP GP/HIP	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP SVR/DeP DEC/DeP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/HIP	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SPL/DeP SPL/DeP SVR/DeP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF DEC/RF RF/RF DEC/RF RF/SPL HIP/HIP	Worst GP/DeP GP/DeP GP/SVR DaL/GP DaL/SVR DaL/GP GP/SVR CP/SVR GP/SVR GP/SVR GP/SVR SVR/SVR	Best DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DaL/HIP GP/HIP	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP DEC/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB	DT/RF HIP/RF HIP/DT RF/RF RF/RF DEP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP LR/HIP SPL/SPL SVR/SPL	DaL/DeP DeP/DeP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR GP/SVR SVR/DeP GP/SVR SVR/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR GP/HIP RF/LR DaL/SPL	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP	Best SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DeP/HIP DaL/RF DaL/HIP DaL/HIP LR/LR HIP/HIP SPL/LR	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SPL/SVR GP/DeP GP/SVR SVR/SVR SYR/SVR SYR/SVR SPL/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DaL/DT DT/HIP DeP/DT HIP/HIP DEC/HIP DEC/SPL	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/GP	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP DaL/DeP DaL/RF DaL/HIP DaL/LR	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP DEC/DeP DeP/DeP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/HIP DT/DaL HIP/HIP HIP/HIP DaL/HIP	Worst SVR/DeP SVR/GP SPL/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF RF/RF DEC/RF RF/SPL HIP/HIP RF/LR	Worst GP/DeP GP/DeP GP/SVR DaL/GP DaL/SVR DaL/GP GP/SVR CP/SVR GP/SVR GP/SVR GP/SVR SVR/SVR	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DAL/RF DAL/HIP GP/HIP LR/LR RF/DT RF/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP GP/GP GP/DeP SVR/DeP DEC/DeP DeP/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL	DT/RF HIP/RF HIP/DT RF/RF RF/RF DEP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP LR/HIP SPL/SPL SVR/SPL	Worst DaL/DeP DeP/DeP GP/GP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DeP/SVR GP/SVR SVR/DeP GP/SVR SVR/DeP GP/SVR GP/SVR GP/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/SP HIP/LR GP/RF GP/DT GP/DT DaL/DaL DT/LR GP/HIP RF/LR DAL/SPL RF/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP RF/DeP SVR/DeP SVR/DeP SVR/DeP	SVR/DeP DT/LR DT/RF DeP/HIP RF/DaL DeP/HIP DaL/RF DaL/HIP DaL/HIP DaL/HIP LR/LR HIP/HIP SPL/LR DeP/DaL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SPL/SVR GP/DEP GP/SVR SVR/SVR SYR/SVR SYR/SVR SYR/SVR SYR/SVR SYR/SVR SYR/SVR SYR/SVR SYR/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT HIP/DT/HIP DEP/DT HIP/HIP DEC/SPL DT/KIP	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/GP	Res' Best Dal/RF HIP/SPL RF/HIP GP/RF RF/SPL GP/RF SPL/HIP Dal/DeP Dal/RF Dal/RF Dal/HIP GP/HIP GP/HIP GP/RF RF/DT GP/RF	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP SVR/DeP DEC/DeP SVR/DeP SVR/DeP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HP RF/RF DT/DaL HIP/DeP RF/RF DT/DaL HIP/RF DaL/HIP GP/RF	Worst SVR/DeP SVR/GP SVR/DeP SVR/DeP SVR/DeP SVR/DeP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF DEC/RF RF/SPL HIP/HIP RF/LR DEC/SPL	GP/DeP GP/DeP GP/DeP GP/SVR DaL/GP DaL/SVR DaL/GP GP/GP GP/GP GP/SVR GP/SVR GP/SVR GP/SVR	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DaL/HIP GP/HIP LR/LR RF/DT	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP DEC/DeP SVR/DeP SVR/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R	DT/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP LR/HIP SPL/SPL SVR/SPL DeP/RF SPL/DEP GP/DAL	Dal/DeP DeP/DeP GP/GP GP/GP GP/SVR Dal/GP SVR/SVR RF/GP DEC/SVR DEC/SVR CGP/SVR SVR/DeP GF/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR FF/GP	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR GP/HIP RF/LR DaL/SPL RF/RF SVR/SPL GP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SPL/DeP SPL/DeP SPL/DeP SVR/DeP	Best SVR/DeP DT/IR DT/RF DT/RF DEP/HIP RF/DaL DeP/HIP DaL/RF DaL/RIP DEP/HIP LR/LR HIP/HIP SPL/LR DEP/DAL RF/DeP DEP/HIP	ASH Worst DT/DEC DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP GP/SVR SVR/SVR SPL/SVR SPL/SVR GP/DEP GP/LR GP/LR GP/DEP SVR/DEC	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DEP/DT DEP/DT HIP/HIP DEC/SPL DT/RF DEP/DT DT/RF	LR/SVR DeP/DeP GP/GP GP/GP SPL/SVR DaL/GP GP/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR GP/SVR GP/SVR GP/GP GP/SVR GP/GP DeP/SPL	Res' Best Dal/RF HIP/SPL RF/HIP GP/RF RF/SPL GP/RF SPL/HIP Dal/DeP Dal/RF Dal/HIP GP/HIP Dal/HIP GP/RF GP/HIP GP/HIP GP/HIP GP/HIP	Worst SVR/DeP DEC/GP SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR OT/GP GP/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP LR/DeP DEC/DeP EC/DeP RF/GP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/MIP DAL/HIP GP/RF HIP/HIP RF/RF RF/RF RF/RF DAL/HIP RF/RF DAL/HIP RF/RF	Worst SVR/DeP SVR/GP SVR/GP LR/GP LR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP SPL/DeP SPL/DeP SPL/DeP SVR/DeP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT DT/DT DT/RF RF/DT DEC/RF RF/SPL HIP/HIP RF/RF HIP/RF SVR/SVR	Worst GP/DeP GP/DeP GP/SP GP/SP DaL/SP DaL/SP DAL/GP SVR/SVR GP/GP SVR/SVR GP/DeP GP/SVR GP/SP DEC/DeP	DaL/DaL HIP/LR GP/SVR DeP/HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DAL/RF DAL/RF CF/HIP LR/LR RF/DT RF/RF SPL/RF SPL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP GP/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP SVR/DeP SVR/DeP SYL/DeP SYL/DeP RF/DeP DT/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB	DT/RF HIP/RF HIP/DT RF/RF RF/RF DEP/DT LR/RF SPL/DT GP/RF HIP/RF SPL/HIP LR/HIP LR/HIP SPL/SPL SVR/SPL DEP/RF SPL/DEP GP/DAL HIP/RF SPL/DEP GP/DAL EPL/SPL SPL/SPL SPL/DEP	Dal/DeP DeP/DeP GP/GP GP/SVR Dal/GP SVR/SVR RF/GP DEC/SVR SVR/DeP GP/SVR SVR/DeP GP/SVR GP/SVR GP/SVR GP/SVR RF/GP RF/GP Dal/DeP Dal/DeP	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR GP/HIP RF/LR DAL/SPL RF/RF SVR/SPL GP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SPL/DeP RF/DeP SPL/DeP RF/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP	Best SVR/DeP DT/IR DT/RF DEP/HIP RF/DaL DeP/HIP DaL/RF DaL/RF DaL/HIP DeP/HIP LR/IR HIP/HIP SPL/LR DEP/DaL DEP/DAL RF/DeP DEP/HIP SPL/DAL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP GP/SVR GP/DeP GP/SVR GP/LR GP/GP SVR/SVR GP/LR GP/GP SVR/DEC DEP/DEP	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DeP/DT DaL/DT DT/HIP DEP/DT DEP/DT DEP/DT DT/RIP DEC/SPL DT/RF DEP/DAL DEC/DT DT/DAL DEC/DT	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR GP/GP GP/SP GP/SP DeP/SPL SVR/DeP	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR GP/RF SPL/HIP DaL/DeP DaL/RF DaL/RF DAL/LR GP/HIP GP/HIP GP/HIP GP/RF GP/HIP GP/RF GP/RF	Worst SVR/DeP DEC/GP SVR/DES SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR SVR/SVR SVR/DEP DEC/DeP DEC/DeP LR/DeP LR/DeP RF/GP SVR/GP	RF/RF DAL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/HIP GP/RF HIP/HIP GP/RF HIP/HIP GP/RF HIP/HIP RF/RF DEP/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/RF DEP/DT DT/RF RF/DT DT/RF RF/SP DEC/RF RF/SPL HIP/HIP RF/LR DEC/SPL RF/RF HIP/RF SVR/SVR DEC/SVR	Worst GP/DeP GP/DeP GP/GP GP/GP GP/SVR DaL/GP DaL/GP DAL/GP GP/GP SVR/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/GP DEC/DeP	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DAL/RF DAL/RF CF/HIP CF/HIP RF/DT RF/DT RF/RF SPL/RF DT/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP GP/DeP SVR/DeP DEC/DeP DeP/DeP SVR/DeP DEP/DeP SVR/DeP DF/DeP SYR/DeP SPL/DeP DT/GP SPL/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY	DT/RF HIP/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP SPL/SPL SVR/SPL DeP/RF SPL/DEP GP/DaL SPL/DEP GP/DaL SPL/RF DEC/RF	Dal/DeP DeP/DeP GP/GP GP/SVR Dal/GP SVR/SVR RF/GP DEC/SVR DEP/SVR GP/SVR SVR/DeP GP/SVR SVR/SVR GP/SVR GP/SVR GP/SVR GP/SVR RF/GP RF/DeP Dal/DeP GP/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR GP/HIP RF/LR DAL/SPL RF/RF SVR/SPL GP/RF RF/RF RF/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP RF/DeP SVR/DeP RF/DeP SVR	SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DEP/HIP DaL/RF DaL/HIP DEP/HIP LR/LR HIP/HIP SFL/LR DEP/DaL RF/DeL RF/DeP DEP/HIP SFL/LR DEP/DAL DEP/DAL DEP/DAL DEP/DAL DEP/DAL DEP/DAL DEP/DAL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SYL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SPL/SVR GP/DeP GP/SVR GP/GP SVR/SVR GP/GP SVR/SVR GP/GP SVR/SVR GP/GP	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DEP/DT DT/HIP DEP/DT DT/HIP DEC/HIP DEC/SPL DT/RF DEP/DAL DEC/DT DT/PAL DEC/DT DT/DAL DEC/DT HIP/HIP	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR SVR/SVR GP/GP GP/SVR SVR/SVR GP/GP GP/SPL SVR/SPC SVR/SPC GP/SPL SVR/LR	Res' Best Dal/RF HIP/SPL RF/HIP GP/RF RF/SPL GP/RF SPL/HIP Dal/RF Dal/RF Dal/RF GP/HIP GP/HIP GP/RF GP/RF GP/RF GP/RF GP/RF GP/LR LR/RF Dal/HIP	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP DEC/DeP REF/GP SVR/GP GP/GP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/HIP HIP/HIP HIP/HIP HIP/HIP HIP/RF DAL/HIP HIP/HIP RF/RF DAL/HIP RF/RF DEP/RF RF/HIP	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/AF RF/RF DEC/RF RF/SPL HIP/HIP RF/LR DEC/SPL RF/RF HIP/RF SVR/SVR DEC/RF RF/RF	Worst GP/DeP GP/DeP GP/GP GP/GP GP/SVR DaL/GP DaL/GP DAL/GP SVR/SVR GP/SVR GP/GP DEC/DeP GP/GP	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DAL/RF GP/HIP LR/LR RF/DT RF/RF SPL/RF SPL/RF DT/RF DAL/HIP	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP SPL/DeP RF/DeP DT/GP SPL/GP GP/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL	DT/RF HIP/RF HIP/RF HIP/DT RF/RF RF/RF DeP/DT LR/RF SPL/DT GP/RF HIP/RF DaL/HIP LR/HIP SPL/SPL SVR/SPL DeP/RF SPL/DEP GP/DaL SPL/RF SPL/RF SPL/RF SPC/RF SVR/RF	Dal/DeP DeP/GP/GP GP/GP/GP GP/GP GP/SVR Dal/GP SVR/SVR DEP/SVR DEP/SVR DEP/SVR SVR/DeP GP/SVR SVR/DeP GP/SVR RF/GP RF/GP RF/GP RF/DeP Dal/DeP GP/SVR DeP/DeP	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DAL/DaL DT/LR GP/HIP RF/LR DAL/SPL RF/RF GP/RF GP/RF GP/RF GP/RF GP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP RF/DeP SVR/DeP RF/DeP SVR	SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DeP/HIP DeP/HIP DaL/RF DaL/HIP LR/LR HIP/HIP SPL/LR DeP/DaL RF/DeP DeP/HIP SPL/LR DeP/DaL RF/DeP DeP/HIP SPL/LR SPL/LR SPL/LR SPL/LR SPL/LR SPL/LR SPL/LR SPL/LR SPL/DAL SPL/DAL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SPL/SVR GP/DEP GP/SVR GP/DEP GP/GP SVR/DEC DEP/DEP GP/LR SVR/DEC	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DEP/DT DT/HIP DEP/DT DT/HIP DEC/SPL DT/RF DEP/DAL DEC/DT DT/DAL DEC/DT HIP/HIP LR/DEC	LR/SVR DeP/DeP GP/GP GP/GP GP/GP SPL/SVR DaL/GP GP/SVR SVR/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/GP GP/SVR SVR/GP EP/SPL SVR/DeP SVR/DeP	Res' Best Dal/RF HIP/SPL RF/HIP GP/LR DeP/RF RF/SPL GP/RF SPL/HIP Dal/DeP Dal/RF Dal/HIP Dal/LR RF/DT GP/HIP GP/LR LR/RF DaL/RF SPHIP GP/LR LR/RF DAL/HIP RF/SVR	SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP DEC/DeP LR/DeP DEC/DeP SVR/GP GP/GP GP/GP GP/DEC	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/RF DaL/HIP/RF DaL/HIP RF/RF DeP/RF RF/RF DeP/RF RF/HIP RF/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GE SVR/DEC	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF DEC/RF RF/RF DEC/SPL HIP/HIP RF/LR DEC/SPL HIP/RF SVR/SVR DEC/RF RF/RF SPL/RF	Worst GP/DeP GP/OP GP/GP GP/SVR DaL/GP DaL/SVR DaL/GP SVR/SVR GP/SVR GP/DeP GP/DeP GP/DeP GP/GP DEC/DeP GP/DeP SVR/GP SVR/GP	Dal/Dal HIP/LR GP/SVR DeP/HIP/RF Dal/RF HIP/RF SPL/HIP DaL/RF Dal/RF DaL/RF DaL/RF DAL/HIP CR/HIP LR/LR RF/DT RF/RF SPL/RF SPL/RF DT/RF DAL/HIP RF/SVR	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP GP/DeP DEC/DeP DEC/DeP DEP/DeP SVR/DeP SPL/DeP SPL/DeP SPL/DeP GF/GP GF/GP GP/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL VP9	DEST DT/RF HIP/RF HIP/DT RF/RF RF/RF RF/RF SPL/DT GP/RF HIP/RF DAL/HIP LR/HIP SPL/SPL SVR/SPL DEP/RF SPL/DEP GP/DAL SPL/RF DEC/RF SVR/FF RF/DT	Dal/DeP DeP/DeP GP/SP GP/SP Dal/GP SVR/SVR RF/GP DEC/SVR SVR/DeP/GP/SVR SVR/DeP GP/SVR GP/GP Dal/DeP GP/GP	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DAL/DaL DT/LR GF/HIP RF/LR GF/RF SVR/SPL GP/RF GP/RF GP/RF GP/RF GP/RF GP/RF GP/RF GP/RF RF/RF DEP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DeP SYR/DEP SYR/DEP SYR/DEC DT/DEC	Best SVR/DeP DT/LR DT/RF DEP/HIP DEP/HIP DaL/RF DaL/RF DAL/RIP DEP/HIP LR/LR HIP/HIP SPL/LR DEP/DaL DEP/DAL DEP/DAL DEC/DAL SPL/DT LR/DT	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP GP/SVR GP/LR GP/DEP GP/LR GP/DEP GP/LR SVR/SVR GP/DEP GP/LR SVR/SVR GP/DEP	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP DEP/DT DaL/HIP DEP/DT HIP/HIP DEC/SPL DT/RF DEP/DT DT/AL DEC/DT DT/DEC/DT DT/DEL DEC/DT HIP/HIP LEC/DT DT/DEL DEC/DT LEC/DT LEC/DT LEC/DT LEC/DT LEC/DT LEC/DT DT/DEL DEC/DT LEC/DT DT/DEL DEC/DT	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR GP/GP GP/SVR SVR/SVR GP/GP GP/SVR SVR/DeP SVR/DeP	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR RF/SPL GP/RF SPL/HIP DaL/DeP DaL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RR GP/HIP GP/HIP GP/RF GP/HIP GP/RF GP/LR LR/RF DAL/RIP RF/SVR SPL/DT	Worst SVR/DeP DEC/GP SVR/SEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR SVR/SVR OT/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP LR/DeP SVR/DeP DEC/DeP RF/GP SVR/GP GP/GP GP/GP GP/GP GP/GP	RF/RF DAL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/RF DAL/HIP GP/RF HIP/HIP GP/RF RF/RF DEP/RF RF/RF RF/RF RF/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP SVL/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT DT/DT RF/DT DT/RF RF/RF DEC/RF RF/SPL HIP/RIP RF/RF HIP/RF SVR/SVR DEC/RF RF/RF BEL/RF DEC/RF	Worst GP/DeP GP/DeP GP/GP GP/SP DaL/GP DaL/GP DaL/GP GP/GP SVR/SVR GP/SP GP/SP SVR/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/GP GP/GP SVR/GP GP/GP SVR/GP GP/GP GP/GP GP/GP	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF CF/HIP LR/LR RF/DT RF/RF SPL/RF SPL/RF DT/RF DAL/HIP RF/SVR SPL/RF DAL/HIP RF/SVR SPL/DT	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP DEC/DeP DeP/DeP SVR/DeP BFL/DeP RF/DeP DT/GP SPL/GP GP/GP GP/GP GP/GP
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BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL VP9 SPARK HIPACC	DT/RF HIP/RF HIP/RF HIP/RF RF/RF RF/RF RF/RF DeP/DT GP/RF HIP/RF DaL/HIP SPL/SFL SVR/SPL DeP/RF SPL/DeP GP/DAL SPL/RF DEC/RF SVR/RF RF/DT DaL/RF SVR/RF SVR/SPL	Dal/DeP DeP/DeP GP/GP GP/SVR Dal/GP SVR/SVR DEC/SVR DEC/SVR DEP/SVR GP/SVR SVR/DEP GP/SVR GP/SVR RF/GP RF/GP RF/GP RF/GP RF/GP Dal/DeP GP/SVR DEP/DEP GP/GP DEP/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DaL/DaL DT/LR GP/HIP RF/LR CGP/HIP RF/LR GP/RF SVR/SPL GP/RF GP/RF SPL/DT DT/RF GP/RF GP/RF GP/RF GP/RF GP/RF GP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP RF/DeP SVR/DeP RF/DeP SVR/DeP RF/DeP SVR/DeP RF/SVR SVR/DeP SVR/DeP RF/DeP SVR/DeP RF/DeP SVR/DeP	SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DeP/HIP DeP/HIP DaL/RF DaL/HIP DEP/HIP LR/LR HIP/HIP SPL/LR DEP/DaL RF/DeP DEP/HIP SPL/LR DEP/DAL RF/DEP DEP/HIP SPL/LR SPL/DT LR/DT LR/DT LR/DT LR/DT LSVR/DAL SVR/DAL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SYL/SVR SVR/SVR SVR/SVR SVR/SVR SYL/SVR GP/DEP GP/SVR GP/DEP GP/SVR GP/LS SVR/SVR GP/LS GP/SVR GP/LS SVR/SVR GP/LS GP/SVR GP/SVR SVR/DEC DEP/DEP GP/SVR DEP/SVR DEP/SVR DEP/SVR	Otte Best DT/DaL DaL/LR DT/DT PRF/RF DaL/HIP DEP/DT DT/HIP DEP/DT DT/HIP DEC/HIP DEC/SPL DT/RF DEP/DT DT/DT DT/DT DT/DT DT/DAL DEC/DT HIP/HIP LR/DEC DT/OT RF/RF DaL/DaL	LR/SVR DeP/DeP GP/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SP SVR/SVR GP/SP SVR/SVR GP/SP SVR/SVR GP/SP SVR/SVR GP/GP GP/SVR SVR/SVR GP/GP SVR/SP	Res' Best DaL/RF HIP/SPL RF/HIP GP/RF RF/SPL GP/RF SPL/HIP DaL/RF DaL/RF DaL/HIP GP/HIP GP/HIP GP/HIP GP/LR LR/RF GP/HIP GP/LR LR/RF GP/LR LR/RF SPL/DT RF/SVR SPL/DT RF/RF SPL/RF	SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP GP/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP GP/GP GP/GP GP/GP GP/GP GP/DEC GP/DEP DEP/DEP/DEP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/RF DT/DaL HIP/HIP HIP/RF DaL/HIP RF/RF DeP/RF RF/HIP RF/RF DeP/RF RF/HIP RF/RF DAL/RF DAL/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/GP	REST RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/RF RF/RF DEC/RF RF/SPL HIP/HIP RF/LR DEC/SPL RF/RF HIP/RF SVR/SVR DEC/RF RF/RF SPL/RF SPL/RF SPL/RF SPL/RF RF/RF	Worst GP/DeP GP/DeP GP/GP GP/GP GP/SVR DaL/GP DaL/GP DAL/GP SVR/SVR GP/SVR	DaL/DaL HIP/LR GP/SVR DeP/HIP/RF DaL/RF HIP/RF SPL/RIP DaL/RF DaL/RF DAL/RF DAL/RF GP/HIP LR/LR RF/DT RF/RF SPL/RF SPL/RF DT/RF SPL/RF SPL/RF SPL/RF SPL/RF SPL/RF SPL/RF SPL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP DEC/DeP DEP/DeP SVR/DeP BF/DeP BF/DeP GP/GP GP/GP GP/GP GP/GP GP/GP GP/GP GP/GP GP/GP SPL/DeP DEP/DeP
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BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL VP9 SPARK HIPACC	DEST DT/RF HIP/RF HIP/RF RF/RF RF/RF RF/RF SPL/DT GP/RF HIP/RF DAL/HIP LR/HIP LR/HIP SPL/SPL SPL/SPL SPL/DEP GP/L/DEP GP/L/DEP GP/L/RF DEC/RF SVR/SPL SVR/SPL SVR/SPL SVR/SPL LR/DT	Dal/DeP DeP/DeP GP/GP GP/SVR Dal/GP SVR/SVR RF/GP DEC/SVR SVR/DeP GP/SVR SVR/DeP GP/SVR GP/SVR GP/SVR RF/GP RF/DeP Dal/DeP GP/SVR DeP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF GP/DT GP/RF DAL/DAL DT/LR GP/HIP RF/LR GP/HIP RF/LR GP/RF SVR/SPL GP/RF RF/RF DEP/RF SPL/DT DT/RF GP/RF DAL/PRF DAL/PRF DAL/PRF DAL/PRF DAL/PRF DAL/PRF GP/RF GP/RF GP/RF GP/RF GP/RF GP/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DEP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR	Best SVR/DeP DT/IR DT/RF DEP/HIP RF/DaL DeP/HIP DaL/RF DaL/RF DaL/HIP DeP/HIP LR/IR HIP/HIP SPL/LR DEP/DaL DEP/DaL RF/DeD DEP/HIP SPL/IR TRF/DeP SPL/IR SPL/IR SPL/DT LR/IT RF/DAL SVR/DAL SVR/DAL SPL/DAL SPL/DAL SPL/DAL SPL/DAL SVR/DAL SPL/DAL SPL/RF RF/DAL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP GP/SVR GP/LR GP/GP SVR/DEP GP/LR GP/GP GP/SVR GP/LR GP/SVR GP/LR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR/DEP GP/SVR	Otte Best DT/DaL DaL/LR DT/DT DeP/HIP RF/RF DaL/HIP DeP/DT DaL/DT DT/HIP DEC/HIP DEC/SPL DT/RF DEP/DT DT/DAL DEC/DT DT/RF/RF DEC/DT DT/DAL DEC/DT DT/DAL DEC/DT RF/RF DaL/DAL DT/RF DAL/DAL DT/DT RF/RF DAL/DAL DT/DAL DT/DAL DT/DAL DT/DAL DT/DAL DT/DAL DT/DT RF/RF DAL/DAL DT/DT GP/DAL	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP SVR/SVR SVR/SVR SVR/SVR GP/SVR SVR/SVR SVR/SVR SVR/SVR SVR/DeP SVR/SVR SVR/SVR GP/GP GP/GP GP/SPL SVR/DeP SVR/SVR SVR/DeP DaL/DeP	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR GP/RF SPL/HIP DaL/DeP DaL/RF DaL/LR GP/HIP GP/HIP GP/HIP GP/HIP GP/HIP GP/HIP GP/HIP GP/HIP GP/RF GP/HIP GP/RF SPL/GF BAL/HIP RF/SVR SPL/DT RF/RF SPL/RF HIP/RF LR/RF	Worst SVR/DeP DEC/GP SVR/DES SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR SVR/SVR SVR/DP DEC/DeP DEC/DeP DEC/DeP LR/DeP LR/DeP SVR/GP GP/GP GP/GP GP/DEC GP/GP GP/DEP SVR/SVR SVR/DEP DEC/DeP SVR/SVR	RF/RF DAL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF HIP/HIP GP/RF HIP/HIP GP/RF HIP/HIP GP/RF RF/RF RF/RF RF/RF RF/DT DAL/RF DAL/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SPL/DeP SVR/DeP SVR/GP	REST RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/RF RF/DT DT/RF RF/PF DEC/RF RF/SPL HIP/HIP RF/LR DEC/SPL RF/RF HIP/RF SVR/SVR DEC/RF RF/RF RF/RF/RF RF/RF RF/	Worst GP/DeP GP/DeP GP/GP GP/GP GP/SVR DaL/GP DaL/GP GP/GP SVR/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/GP GP/GP SVR/GP GP/GP GP/GP SVR/GP GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/GP SVR/DeP GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/DeP SVR/DeP	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DaL/RF DAL/RF DAL/RF DAL/HIP GP/HIP LR/LR RF/DT RF/DT RF/RF SPL/RF DT/RF DAL/HIP RF/SVR SPL/HIP DAL/RF SPL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF SPL/RF DAL/RF CP/DEC DeP/DT	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/DeP SVR/DeP DEC/DeP DEP/DeP SVR/DeP DT/GP SPL/DeP GP/DEC GP/GP GP/DEC GP/GP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEFPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL VP9 SPARK HIPACC REDIS STORM	DEST DT/RF HIP/RF HIP/RF RF/RF RF/RF RF/RF SPL/DT GP/RF HIP/RF DAL/HIP LR/HIP LR/HIP SPL/SPL SPL/SPL SPL/DEP GP/L/DEP GP/L/DEP GP/L/RF DEC/RF SVR/SPL SVR/SPL SVR/SPL SVR/SPL LR/DT	Dal/DeP DeP/DeP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DEP/SVR SVR/DeP GP/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR GP/SVR GP/SVR GP/SVR DEP/DeP DEP/DeP GP/SVR GP/SVR GP/SVR GP/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/RF HIP/LR GP/RF DAL/DaL DT/LR GP/HIP RF/LR GP/RF RF/RF SVR/SPL GP/RF GP/RF GP/RF GP/RF GP/RF SPL/DT DT/LR GP/RF SPL/DT DT/RF GP/RF SPL/DT DT/RF GP/RF SPL/DT DT/RF GP/RF SPL/DT DT/RF GP/RF DAL/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DEP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR SVR/DeP RF/SVR	Best SVR/DeP DT/LR DT/RF DEP/HIP RF/DaL DeP/HIP DaL/RF DaL/RF DaL/RF DaL/RIP LR/LR HIP/HIP SPL/LR DEP/DaL RF/DeP DEP/HIP SPL/DaL DEC/DaL SFL/DT LR/DT RF/DaL SYL/DAL SYL/DAL SYL/DAL SYL/DAL SYL/DAL SYL/DAL SYL/DAL	ASH Worst DT/DEC DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP GP/SVR SVR/SVR SYR/SVR GP/DeP GP/SVR SVR/SVR GP/LR GP/DeP GP/LR GP/DeP GP/EP GP/SVR GP/DeP GP/SVR SVR/SVR GP/DeP GP/SVR SVR/DeP GP/SVR SVR/DeP	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DEP/DT DEP/DT HIP/HIP DEC/SPL DT/RF DEC/DT DT/DAL DEC/DT T/DAL DEC/DT T/DAL DEC/DT T/PAL DEC/DT TRF/RF DEP/DAL HIP/DAL	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/GP GP/SVR GP/GP SVR/DeP SVR/DeP SVR/LS DeP/DeP GP/GP SPL/SVR LR/DeP	Res' Best DaL/RF HIP/SPL RF/HIP GP/LR RF/HIP GP/RF SPL/HIP DaL/DeP DaL/RF DAL/RF DAL/HIP DAL/HIP DAL/HIP GP/HIP DAL/LR RF/DT GP/RF GP/HIP GP/RF GP/HIP GP/LR RF/SVR SPL/DT RF/SVR SPL/DT RF/RF SPL/RF	Worst SVR/DeP DEC/GP SVR/SCS SVR/SCC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR SVR/SVR SVR/SVR DT/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP SVR/GP GP/GP GP/DEC GP/DEC GP/DEC GP/DEC GP/DEP DEC/DeP DEC/DeP RF/GP GP/DEC GP/DEC GP/DEC GP/DEC DEP/DEP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/DeP RF/RF DT/DaL HIP/HIP GP/RF HIP/HIP GP/RF HIP/HIP GP/RF RF/RF DEP/RF RF/RF DEP/RF RF/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeC SVR/DeC SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SPL/DeP SPL/DeP SVR/GP SVR/GP SVR/GP SPL/DeP SVR/GP SPL/DeP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/RF DEP/DT DT/RF RF/SPL HIP/HIP RF/RF DEC/RF HIP/RF SVR/SVR DEC/RF RF/RF DEC/RF RF/RF DEC/DT RF/RF DEC/DT RF/RF	Worst GP/DeP GP/DeP GP/GP GP/SP DaL/GP DaL/SVR DaL/GP GP/SVR GP/GP SVR/SVR GP/DeP GP/SVR GP/DeP GP/SVR GP/SVR GP/SVR GP/SVR GP/SVR GP/GP SVR/GP GP/GP SVR/GP GP/GP GP/SVR GP/DeP	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF SPL/RF SPL/RF SPL/RF SPL/RF DT/RF DAL/RIP RF/SVR SPL/RF DAL/RIP SPL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/DeP SVR/DeP DEC/DeP DEP/DeP SVR/DeP DT/GP SPL/DeP GP/DEC GP/GP GP/DEC GP/GP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/DeP SPL/GP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL VP9 SPARK HIPACC REDIS STORM SAC	DT/RF HIP/RF HIP/RF HIP/RF RF/RF RF/RF RF/RF RF/RF DEP/DT GP/RF HIP/RF DAL/HIP LR/HIP SPL/SPL SVR/SPL DEP/RF DEC/RF SVR/RF RF/DT DAL/RF SVR/SPL SVR/SPL LR/DT DEC/HIP	Dal/DeP DeP/VeP GP/GP GP/SVR Dal/GP SVR/SVR DEP/SVR DEP/SVR DEP/SVR GP/SVR SVR/DEP GP/SVR GP/DeP GP/GP DEP/SVR GP/DeP SVR/DeP Dal/DeP SVR/DeP Dal/SVR	GP/DaL GP/LR RF/SVR GP/LR RF/SF HIP/LR GP/RF DaL/DaL DT/LR GP/HIP RF/LR DAL/SPL RF/RF SVR/SPL GP/RF DAL/RF GP/RF DAL/HIP	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR, DeP/DeP SVR/HIP RF/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP EF/DeP SVR/DeP EF/SVR SVR/DeP GP/GP RF/SVR SVR/DEP SVR/DeP RF/SVR SVR/DEP SVR/DeP SVR/SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/SVR/SVR/DeP SVR/SVR/SVR/SVR/SVR/SVR/SVR/SVR/SVR/SVR/	Best SVR/DeP DT/IR DT/RF DT/RF DEP/HIP RF/DaL DEP/HIP DaL/RF DaL/RF DAL/RIP DEP/HIP LR/LR HIP/HIP SPL/LR DEP/DAL DEC/DAL SFL/DT LR/DT LR/DT LR/DT LR/DT RF/DaL SVR/DAL SPL/RF RF/DAL SPL/RF RF/DAL SPL/RF RF/DAL SPL/RF RF/DAL RF/RF/DAL	ASH Worst DT/DEC DT/LR GP/SVR RF/GP SYL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SPL/SVR GP/DeP GP/SVR GP/LR GP/CP GP/SVR GP/LR GP/CP GP/SVR SVR/DEC GP/SVR DEP/DEP DEP/DEP DEP/SVR	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DEP/DT DT/HIP DEP/DT DT/HIP DEC/HIP DEC/SPL DT/RF DEP/DT DT/HIP DEC/DT DT/DAL DEC/DT DT/DAL DEC/DT HIP/HIP LR/DEC DT/DT RF/RF DAL/DAL HIP/DT GF/DAL HIP/DT GF/DAL HIP/DT GF/DAL HIP/DT GF/DAL HIP/DT DT/DAL DEC/DT DT/DAL DEC/DT DT/DAL DEC/DT DT/DAL DEC/DT DT/DAL DEC/DT DT/DAL DEC/DT HIP/HIP LR/DEC DT/DT	LR/SVR DeP/DeP GP/GP SPL/SVR DaL/GP GP/SVR SVR/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR SVR/DeP SVR/DeP SVR/DeP SVR/DeP GP/GP DeP/SPL SVR/DeP SVR/DeP SVR/DeP GP/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR DeP/SPL SVR/DeP GP/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR	Res' Best Dal/RF HIP/SPL RF/HIP GP/RF RF/SPL GP/RF SPL/HIP Dal/RF Dal/RF Dal/RF GP/HIP GP/HIP GP/HIP GP/RF GP/HIP GP/RF GP/HIP GP/LR LR/RF Dal/HIP RF/SVR SPL/HIP SPL/RF HIP/RF LR/RF SPL/RF HIP/RF LR/RF DT/SVR	Worst SVR/DeP DEC/GP SVR/DEC SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR DT/GP DEC/DeP DEC/DeP DEC/DeP DEC/DeP DEC/DeP SVR/OP GP/GP GP/GP GP/GP GP/DEC GP/DEC GP/DEC GP/DEC GP/DEC GP/DEC GP/DEC GP/DEC SVR/GP SVR/GP SVR/GR SVR/GR SVR/GR GP/DEC GP/DEC GP/DEC DEP/DEC DEP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/HIP HIP/HIP HIP/HIP HIP/HIP HIP/RF DAL/HIP RF/RF DEP/RF RF/HIP RF/RF DEP/RF RF/HIP RF/RF DAL/RF SVR/SPL LR/RF RF/DeP	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/GP	REST RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/DT RF/DT DT/AF RF/RF DEC/RF RF/SPL HIP/HIP RF/LR DEC/SPL RF/RF HIP/RF SVR/SVR DEC/RF RF/RF SPL/RF SPL/RF DEC/DT RF/RF RF/RF DEC/DT DEP/DT DEC/DT	Worst GP/DeP GP/DeP GP/GP GP/GP GP/SVR DaL/GP DaL/GP GP/SVR GP/GP DEC/DeP GP/DeP GP/SVR GP/SVR/DeP DEP/SVR	DaL/DaL HIP/LR GP/SVR DeP/HIP HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DAL/RF DAL/RF DAL/RF GP/HIP LR/LR RF/DT RF/RF SPL/RF DY/RF DAL/HIP RF/SVR SPL/RF DAL/HIP SPL/RF DAL/HIP SPL/RF DAL/HIP RF/SVR SPL/DT DAL/RF SPL/RF SPL/RF DAL/RF SPL/RF DAL/RF SPL/DT DAL/RF SPL/DT DAL/RF SPL/RF	Worst SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP SPL/DeP SPL/DeP GP/GP GP/GP GP/GP GP/GP GP/GP GP/GP GP/GP SPL/DeP
BROTLI LLVM LRZIP XGBOOST NOC-CM-LOG DEEPARCH BDBC HSQLDB DCONVERT 7Z APACHE HSMGP MONGODB POSTGRESQL EXASTENCILS KANZI JUMP3R MARIADB POLLY SQL VP9 SPARK HIPACC REDIS STORM SAC HADOOP	DT/RF HIP/RF HIP/PF RF/RF RF/RF RF/RF SPL/DT GP/RF HIP/DT LR/HP DaL/HIP/RF DAL/HIP LR/HIP SPL/SPL SPL/SPL SPL/RF SPL/DeP GP/DAL SPL/RF SVR/SPL SVR/SPL SVR/SPL LR/DT DEC/HIP SVR/RF RF/DT DEC/HIP SVR/RF RF/RF SVR/RF RF/RF	Dal/DeP DeP/DeP GP/SVR DaL/GP SVR/SVR RF/GP DEC/SVR DEP/SVR SVR/DeP GP/SVR SVR/DeP GP/SVR GP/DeP Dal/SVR GP/DeP Dal/SVR GP/DeP SVR/DeP Dal/SVR GP/DeP SVR/DeP Dal/SVR SVR/SVR	GP/DaL GP/LR RF/SVR RF/SVR RF/RF GP/LR GP/RF GP/DT GP/RF DaL/DAL DT/LR GP/HIP RF/LR DAL/SPL RF/RF SVR/SPL GP/RF GP/RF GP/RF SPL/DT DT/RF GP/RF DAL/RF GP/RF DAL/RF	RF/DeP RF/GP LR/LR DEC/GP GP/GP SPL/GP RF/SVR DeP/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP SVR/DeP RF/SVR SVR/DEQ DT/DeP LR/DeP LR/DeP RF/SVR SVR/DEQ DT/DeP LR/DeP RF/SVR SVR/DeP LR/DeP LR/DeP RF/SVR SVR/DeP LR/DeP DT/DeP RF/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/SVR SPL/GP DAL/GP	Best SVR/DeP DT/IR DT/RF DT/RF DEP/HIP RF/DaL DEP/HIP DaL/RF DaL/RF DAL/RIP DEP/HIP LR/LR HIP/HIP SPL/LR DEP/DAL DEC/DAL SFL/DT LR/DT LR/DT LR/DT LR/DT RF/DaL SVR/DAL SPL/RF RF/DAL SPL/RF RF/DAL SPL/RF RF/DAL SPL/RF RF/DAL RF/RF/DAL	ASH Worst DT/DEC DT/DEC DT/LR GP/SVR RF/GP SPL/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/DeP GP/SVR GP/DeP GP/LR GP/DeP GP/LR GP/CP GP/LR GP/DeP GP/LR GP/DeP GP/LR GP/DeP GP/LR GP/DeP GP/SVR DEP/SVR DEP/SVR DEP/SVR DEP/SVR DEP/SVR DEP/SVR DEP/DEP DEP/DEP DEP/DEP	Otte Best DT/DaL DaL/LR DT/DT DEP/HIP RF/RF DaL/HIP DEP/DT DAL/DT DT/HIP DEC/HIP DEC/SPL DT/RF DEP/DT DT/DAL DEC/DT T/DAL DEC/DT T/DAL DEC/DT T/DAL DEC/DT TRF/RF DAL/DAL HIP/DEC DT/DAL DEC/DT GP/DAL DEC/DT GP/DAL DEC/DT GP/DAL DI/DAL DEC/DT DAL/DAL DI/DAL DI/DAL DT/DAL DT/DAL	LR/SVR DeP/DeP GP/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR SVR/SVR GP/SVR GP/SVR GP/GP DEP/SPL SVR/LR DEP/DeP GP/GP SPL/SVR LR/DeP DAL/DeP RP/SPL RR/SVR RF/DeP	Res' Best Dal/RF HIP/SPL RF/HIP GP/LF RF/SPL GP/RF SPL/HIP Dal/DeP Dal/RF Dal/HIP GP/HIP GP/HIP GP/HIP GP/HIP GP/HIP TGP/HIP TGP/HIP TGP/HIP TRF/SVR SPL/DT RF/SVR SPL/DT RF/RF SPL/RF HIP/RF LR/RF DT/SVR DT/SRF	Worst SVR/DeP DEC/GP SVR/SVR SPL/GP DT/DeP SVR/SVR SVR/SVR SVR/SVR SVR/DP DEC/DeP DEC/DeP DEC/DeP LR/DeP SVR/DeP SVR/GP GP/GP GP/DEC GP/GP GP/DEC SVR/DEP DEC/DeP LR/LR DEC/DeP LR/LP SVR/GP GP/DEC SVR/GP GP/DEC SVR/GP DEC/DEP DEC/DEP DEC/DEP DEC/DEP DEC/DEP DEC/DEP DEC/DEP SVR/GP GP/DEC SVR/SVR LR/LR DEC/DEP	RF/RF DaL/HIP DEC/DeP RF/LR DeP/RF HIP/LR RF/RF HIP/HIP HIP/JOP RF/RF DT/DaL HIP/HIP HIP/RF DaL/HIP RF/RF DEP/RF RF/HIP RF/RF RF/HIP RF/RF RF/HIP RF/RF RF/HIP RF/RF SVR/SPL LR/RF RF/DP LR/RF	Worst SVR/DeP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/GP SVR/DeP SPL/DeP SVR/DeP SVR/GP	RF/RF DEC/RF RF/DT DT/RF DEP/DT DT/RF RF/DT DT/RF RF/RF DEC/RF RF/SPL HIP/RF DEC/SPL RF/RF DEC/SPL RF/RF DEC/RF RF/RF DEC/RF RF/RF DEC/DT RF/RF DEC/DT RF/RF DEC/DT RF/RF DEC/DT RF/RF DEC/DT RF/RF SPL/RF DEC/DT SPL/RF SPL/RF	GP/DeP GP/DeP GP/GP GP/SP GP/SP DaL/SVR DaL/GP GP/GP SVR/SVR GP/DeP GP/SVR GP/DeP GP/SVR GP/SVR GP/SVR GP/SVR GP/GP GP/SVR GP/GP GP/GP SVR/GP GP/GP GP/GP SVR/GP GP/SVR GP	DaL/DaL HIP/LR GP/SVR DeP/HIP/RF DaL/RF HIP/RF SPL/HIP DaL/RF DaL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF DAL/RF SPL/RF SPL/RF SPL/RF SPL/RF SPL/RF DAL/RF SPL/RF GP/DT DAL/RF SPL/DT DAL/RF SPL/DT DAL/RF GP/DEC DeP/DT DEP/SVR HIP/RF	SVR/DeP SVR/GP LR/SPL LR/GP SVR/GP SVR/GP SVR/GP SVR/SVR GP/GP GP/DeP SVR/DeP DEC/DeP DEC/DeP SPL/DeP SPL/DeP GP/DEC GP/GP GP/GP GP/GP SPL/DEP

TABLE 2: The best and worst results of EFF. and MAPE/ μ RD in SMBO. Formats are the same as Table 1.

(a) MAPE and Efficiency

C	BOCA		ATConf		FLASH		OtterTune		ResTune		ROBC	Tune	SMAC		Tuneful	
System	Best	Worst	Best	Worst	Best	Worst	Best	Worst	Best	Worst	Best	Worst	Best	Worst	Best	Worst
Brotli	GP/RF	DeP/SVR	LR/DeP	RF/GP	LR/DT	GP/SVR	SVR/DEC	DeP/SVR	LR/RF	SVR/HIP	DaL/RF	SVR/HIP	GP/DEC	DeP/SVR	SPL/RF	SVR/HIP
LLVM	HIP/RF	SVR/GP	SPL/LR	RF/GP	SPL/SPL	DeP/SVR	LR/LR	DeP/SVR	GP/LR	DEC/SVR	SPL/HIP	DT/GP	GP/RF	SVR/GP	GP/LR	DT/GP
Lrzip	DaL/SPL	HIP/HIP	RF/RF	SPL/HIP	SVR/DT	RF/LR	SVR/DT	DT/LR	SVR/SPL	DeP/HIP	GP/RF	DEC/HIP	GP/DT	DT/LR	HIP/RF	DEC/HIP
XGBOOST	RF/DT	GP/SVR	SPL/RF	DEC/DeP	RF/HIP	GP/SVR	DeP/DT	SVR/SPL	GP/RF	DT/SPL	GP/RF	RF/GP	DeP/DT	SVR/SVR	GP/RF	DeP/DeP
NOC-CM-LOG	GP/DEC	DaL/SPL	LR/RF	GP/SVR	DeP/DT	DaL/GP	SVR/DT	DaL/GP	DeP/DT	SPL/GP	SPL/RF	DEC/GP	GP/DT	DaL/LR	HIP/DT	DEC/GP
DEEPARCH	DeP/DT	GP/SVR	GP/RF	DT/DeP	RF/SPL	GP/SVR	DEC/RF	GP/SVR	GP/RF	DEC/SPL	GP/RF	DaL/DeP	RF/DT	SVR/SVR	LR/RF	DT/DeP
BDBC	DeP/DEC	DT/SVR	LR/DaL	DaL/HIP	RF/DaL	SVR/LR	RF/DT	SVR/LR	LR/DaL	RF/HIP	LR/DaL	DT/HIP	GP/DT	RF/LR	LR/DaL	RF/DeP
HSQLDB	GP/DEC	DT/SVR	SPL/DT	DeP/SVR	DaL/RF	SVR/SVR	RF/DT	SVR/SVR	LR/DT	DeP/SVR	GP/HIP	DeP/GP	GP/DT	DEC/GP	LR/DT	DEC/SVR
DCONVERT	HIP/RF	SVR/SVR	GP/RF	DEC/SVR	HIP/HIP	SVR/SVR	DT/HIP	SVR/SVR	GP/DeP	DEC/GP	SVR/DeP	DEC/SPL	GP/DEC	SVR/SVR	GP/DeP	RF/GP
7z	DaL/RF	DT/SVR	DeP/RF	DT/HIP	DaL/DEC	GP/SVR	DaL/DEC	GP/SVR	DaL/RF	GP/DeP	RF/RF	DeP/GP	RF/DT	GP/SVR	DaL/RF	GP/DeP
APACHE	RF/DEC	DeP/DeP	SPL/DEC	DT/SVR	GP/LR	RF/DeP	GP/DEC	DeP/DeP	SVR/DEC	DeP/HIP	GP/DEC	DT/GP	GP/DEC	DEC/DeP	SVR/DEC	DeP/HIP
HSMGP	HIP/HIP	DT/SVR	SPL/RF	DEC/SVR	HIP/HIP	GP/SVR	HIP/HIP	SVR/SVR	LR/HIP	DEC/DeP	SPL/DaL	DeP/LR	SPL/DT	DEC/SVR	LR/HIP	DEC/DeP
Mongodb	RF/DEC	SVR/SVR	SPL/RF	DeP/SVR	LR/LR	SVR/SVR	LR/LR	SVR/SVR	GP/RF	DeP/DeP	SVR/RF	DT/GP	SPL/LR	GP/SVR	LR/LR	DT/DeP
PostgreSQL	LR/SVR	DEC/DeP	GP/DT	DEC/DeP	GP/DaL	DEC/SVR	RF/RF	DT/DeP	DEC/DT	DeP/GP	DaL/HIP	DeP/GP	GP/SVR	DEC/DeP	SPL/DT	DeP/GP
EXASTENCILS	DEC/RF	GP/DeP	RF/RF	SPL/SVR	DaL/DaL	GP/LR	DaL/DaL	GP/SVR	GP/RF	LR/GP	GP/RF	DeP/GP	RF/RF	GP/SVR	RF/RF	LR/GP
KANZI	LR/RF	DT/LR	GP/RF	RF/HIP	RF/DeP	GP/LR	RF/DT	GP/LR	SVR/RF	DT/HIP	SVR/RF	DeP/HIP	SPL/RF	DT/LR	GP/RF	DEC/HIP
JUMP3R	GP/RF	DT/LR	SPL/RF	DEC/HIP	DeP/SPL	SVR/LR	GP/DT	DEC/LR	GP/RF	RF/GP	SVR/RF	DaL/GP	HIP/DT	DT/LR	SPL/RF	DT/GP
Mariadb	LR/DT	RF/SVR	SPL/DaL	DEC/SVR	DT/DT	DeP/SVR	SPL/DT	DeP/SVR	SPL/DeP	RF/SVR	GP/DeP	DEC/GP	GP/DT	DeP/SVR	SPL/DeP	DeP/GP
POLLY	DEC/DT	GP/LR	RF/RF	HIP/HIP	DEC/DEC	SVR/SVR	DeP/DT	LR/LR	RF/SVR	SPL/GP	SVR/SVR	HIP/GP	DT/DT	SVR/SVR	RF/SVR	SPL/GP
SQL	DT/SVR	DeP/LR	DeP/SVR	DT/DT	DaL/DaL	DeP/LR	SVR/SVR	DEC/LR	GP/SVR	DaL/LR	SVR/RF	DEC/LR	GP/RF	DeP/DeP	GP/SVR	DEC/LR
VP9	RF/DEC	GP/SVR	GP/DEC	DT/SVR	RF/DEC	GP/SVR	RF/DEC	GP/SVR	GP/DEC	SPL/GP	DeP/HIP	DEC/GP	SPL/DT	GP/SVR	GP/DEC	SPL/GP
Spark	SPL/RF	DaL/DeP	SVR/RF	DeP/SVR	RF/DaL	DeP/DeP	SVR/DEC	DaL/DeP	SPL/RF	DeP/GP	GP/RF	DeP/GP	GP/DEC	DaL/DeP	GP/RF	DeP/GP
HIPACC	GP/RF	DaL/SVR	SPL/RF	DT/SVR	RF/DaL	DeP/SVR	DEC/HIP	DeP/SVR	SPL/RF	DeP/DeP	SVR/DaL	DeP/GP	DaL/RF	DeP/SVR	SPL/RF	DeP/LR
Redis	HIP/SVR	GP/DeP	LR/GP	GP/DeP	GP/SVR	DaL/DeP	GP/DaL	RF/DeP	HIP/RF	DaL/GP	SPL/SPL	HIP/GP	GP/RF	SVR/DeP	LR/SVR	DEC/GP
STORM	GP/RF	SVR/DT	GP/RF	RF/DT	DeP/LR	DaL/RF	SPL/LR	DaL/DT	SPL/RF	HIP/DT	DeP/LR	SPL/DEC	DeP/RF	SVR/DT	LR/RF	GP/DT
SAC	DeP/HIP	DT/DeP	DeP/RF	LR/SVR	SPL/DEC	DeP/DeP	HIP/DEC	DeP/DeP	HIP/RF	LR/LR	SVR/DeP	SPL/SPL	GP/DEC	DeP/DeP	DeP/RF	GP/LR
HADOOP	RF/SVR	DEC/DeP	SPL/GP	DEC/DeP	LR/SVR	DeP/DeP	RF/SVR	DeP/DeP	SVR/DeP	DT/GP	RF/DeP	LR/GP	RF/SVR	DeP/DeP	DeP/DeP	DEC/GP
TOMCAT	GP/SVR	HIP/DeP	DEC/RF	SVR/DeP	GP/SVR	DeP/DeP	RF/SVR	DeP/DeP	GP/RF	DeP/GP	SPL/SVR	DeP/GP	DaL/RF	LR/DeP	SPL/RF	DT/GP
JAVAGC	LR/RF	DeP/SVR	DaL/RF	GP/HIP	RF/HIP	SVR/SVR	RF/DEC	GP/SVR	LR/RF	GP/GP	GP/RF	DeP/HIP	SPL/RF	DeP/HIP	DaL/RF	GP/LR

(b) μRD and Efficiency																
System	BOCA Best Worst		ATConf Best Worst		FLASH Best Worst		OtterTune Best Worst		ResTune Best Worst		ROBOTune Best Worst		SMAC Best Worst		Tuneful Best Worst	
Brotli	GP/RF	DeP/DeP	LR/DaL	RF/DeP	LR/DeP	GP/DEC	SVR/DaL	DeP/SVR	LR/RF	SVR/DeP	DaL/RF	SVR/DeP	GP/RF	DeP/DeP	SPL/DaL	SVR/DeP
LLVM	HIP/RF	SVR/DeP	SPL/LR	RF/GP	SPL/LR	DeP/DEC	LR/LR	DeP/DeP	GP/SPL	DEC/GP	SPL/HIP	DT/GP	GP/RF	SVR/DeP	GP/LR	DT/GP
Lrzip	DaL/DT	HIP/GP	RF/SVR	SPL/LR	SVR/RF	RF/LR	SVR/DT	DT/GP	SVR/HIP	DeP/DEC	GP/DeP	DEC/GP	GP/DT	DT/GP	HIP/SVR	DEC/SPL
XGBOOST	RF/RF	GP/SVR	SPL/LR	DEC/GP	RF/HIP	GP/SVR	DeP/HIP	SVR/SVR	GP/LR	DT/SVR	GP/LR	RF/GP	DeP/RF	SVR/SVR	GP/HIP	DeP/GP
NOC-CM-LOG	GP/RF	DaL/GP	LR/RF	GP/GP	DeP/DaL	DaL/GP	SVR/RF	DaL/GP	DeP/RF	SPL/GP	SPL/RF	DEC/GP	GP/DT	DaL/GP	HIP/RF	DEC/GP
DEEPARCH	DeP/DT	GP/SVR	GP/LR	DT/GP	RF/HIP	GP/SVR	DEC/HIP	GP/SVR	GP/SPL	DEC/DeP	GP/LR	DaL/GP	RF/DT	SVR/SVR	LR/RF	DT/GP
BDBC	DeP/RF	DT/GP	LR/RF	DaL/SVR	RF/HIP	SVR/SVR	RF/DT	SVR/GP	LR/RF	RF/SVR	LR/RF	DT/GP	GP/DT	RF/GP	LR/RF	RF/GP
HSQLDB	GP/DT	DT/SVR	SPL/DT	DeP/DeP	DaL/RF	SVR/SVR	RF/DT	SVR/SVR	LR/HIP	DeP/SVR	GP/HIP	DeP/GP	GP/RF	DEC/GP	LR/HIP	DEC/SVR
DCONVERT	HIP/RF	SVR/SVR	GP/RF	DEC/HIP	HIP/HIP	SVR/SVR	DT/HIP	SVR/SVR	GP/DeP	DEC/GP	SVR/DeP	DEC/GP	GP/RF	SVR/SVR	GP/RF	RF/GP
7z	DaL/RF	DT/SVR	DeP/DaL	DT/DeP	DaL/HIP		DaL/DT	GP/SVR	DaL/RF	GP/DeP	RF/RF	DeP/DeP	RF/RF	GP/SVR	DaL/RF	GP/DeP
APACHE	RF/HIP	DeP/DeP	SPL/LR	DT/DeP	GP/LR	RF/DeP	GP/HIP	DeP/DeP	SVR/HIP	DeP/DeP	GP/DaL	DT/DeP	GP/SPL	DEC/DeP	SVR/HIP	DeP/DeP
	HIP/HIP	DT/SVR		DEC/DeP	HIP/HIP	GP/SVR	HIP/HIP	SVR/SVR	LR/HIP	DEC/DeP	SPL/HIP	DeP/DeP	SPL/HIP	DEC/SVR	LR/HIP	DEC/DeP
Mongodb	RF/SPL	SVR/SVR	SPL/LR	DeP/DeP	LR/LR	SVR/SVR	LR/SPL	SVR/SVR	GP/LR	DeP/DeP	SVR/RF	DT/DeP	SPL/LR	GP/SVR	LR/LR	DT/DeP
PostgreSQL	, -	DEC/SVR	- , -	DEC/DeP	. , .	DEC/SVR	RF/RF	DT/GP	DEC/DT			DeP/DeP		DEC/SVR	SPL/DT	DeP/DeP
EXASTENCILS	DEC/RF	GP/SVR	RF/RF	SPL/DeP	DaL/DaL		DaL/DaL		GP/RF	LR/DeP	GP/RF	DeP/DeP	RF/RF	GP/SVR	RF/RF	LR/DeP
KANZI	LR/DeP	DT/GP	GP/SPL	RF/DeP	RF/DeP	GP/GP	RF/DT	GP/GP	SVR/HIP	DT/DeP	SVR/HIP	DeP/DeP	SPL/RF	DT/GP	GP/RF	DEC/DeP
JUMP3R	GP/DaL	DT/DeP	SPL/RF		DeP/HIP	SVR/DEC	GP/DaL	DEC/SPL	GP/LR	RF/GP	SVR/RF	DaL/GP	HIP/SVR	DT/DeP	SPL/RF	DT/GP
Mariadb	LR/RF	RF/DeP	SPL/RF	DEC/SVR	DT/DaL	DeP/DeP	SPL/DT	DeP/DeP	SPL/RF	RF/GP	GP/RF	DEC/GP	GP/RF	DeP/DeP	SPL/RF	DeP/GP
POLLY	DEC/RF	GP/SVR	RF/RF	HIP/GP	DEC/DaL	- ,	DeP/HIP		RF/HIP	SPL/GP	SVR/HIP		DT/RF	SVR/GP	RF/HIP	SPL/GP
SQL	DT/RF	DeP/DeP	DeP/RF	DT/DEC	DaL/DT	DeP/DeP	SVR/DEC		GP/SVR	DaL/DEC	SVR/RF	DEC/DEC	GP/RF	DeP/GP	GP/SVR	DEC/DEC
VP9	RF/DT	GP/GP	GP/DT	DT/DeP	RF/DT	GP/SVR	RF/DT	GP/GP	GP/DT	SPL/GP	DeP/DT	DEC/GP	SPL/DT	GP/GP	GP/DT	SPL/GP
Spark	SPL/RF	DaL/SVR	SVR/RF	DeP/DeP	, ,	DeP/SVR	- ,	DaL/SVR	SPL/RF	DeP/DeP		DeP/DeP	GP/RF	DaL/SVR	GP/RF	DeP/DeP
HIPACC	GP/SPL	DaL/SVR	SPL/RF	DT/DeP	RF/DaL	DeP/SVR	DEC/DaL	DeP/SVR	SPL/RF	DeP/DeP	SVR/RF	DeP/GP	DaL/RF	DeP/SVR	SPL/RF	DeP/DeP
Redis	HIP/SPL	GP/DeP	LR/RF	GP/GP	GP/RF	DaL/DeP	GP/DT	RF/DeP	HIP/RF	DaL/DeP		HIP/DeP	GP/DT	SVR/DeP	LR/DEC	DEC/DeP
STORM	GP/DT	SVR/DeP	GP/RF	RF/SVR	DeP/DaL	DaL/DeP	SPL/DaL	DaL/DeP	SPL/RF	HIP/SVR	DeP/RF	SPL/GP	DeP/DT	SVR/DeP	LR/DT	GP/GP
SAC	DeP/HIP	DT/SVR	DeP/HIP	LR/SVR	SPL/RF	DeP/SVR	HIP/DEC	DeP/SVR	HIP/SVR	LR/LR	SVR/DeP	SPL/DEC	GP/DT	DeP/SVR	DeP/SVR	GP/LR
HADOOP	RF/RF	DEC/DeP	SPL/RF	DEC/DeP	LR/DT	DeP/DeP	RF/DaL	DeP/DeP	SVR/RF	DT/DeP	RF/RF	LR/DeP	RF/RF	DeP/DeP	DeP/RF	DEC/DeP
TOMCAT	GP/LR	HIP/SVR	DEC/RF	SVR/GP	GP/DaL	DeP/DeP	RF/DaL	DeP/DeP	GP/LR	DeP/GP	SPL/SPL	DeP/GP	DaL/RF	LR/DeP	SPL/RF	DT/GP
JAVAGC	LR/SPL	DeP/SVR	DaL/RF	GP/SVR	RF/HIP	SVR/GP	RF/DEC	GP/SVR	LR/SPL	GP/GP	GP/HIP	DeP/GP	SPL/RF	DeP/SVR	DaL/SVR	GP/LR

TABLE 3: The best and worst results of PERF. and MAPE/ μ RD in BMBO. Formats are the same as Table 1.

(a) MAPE and Performance Irace Worst BestConfig Best Worst GGA ParamILS GA SWAY ConEx st Worst System Worst Worst Worst Best Brotli GP/SPL SVR/DaL LLVM RF/RF DeP/GP -/--/--/-LRZIP LR/LR XGBOOST RF/RF DT/SPL NOC-CM-LOG GP/SPL DEEPARCH RF/RF SVR/SPL BDBC RF/DT RF/DaL DeP/LR HSQLDB DT/GP SVR/SPI SVR/LR SVR/SPI DeP/LR HIP/DT DaL/DT SVR/SPI DeP/LR DCONVERT RF/DT DeP/SPI GP/DT DT/DT DaL/DT SVR/SPI RF/DT SPL/SPL HTP/DT SVR/SPI HTD/DT SVR / SP RF/DT DeP/LR DaL/DT SVR/LR SVR/LR RF/DT DaL/DI DaL/DI DT/DT RF/DI SPL/LF APACHE SPL/LR DaL/DeP RF/LR DeP/DeP SPL/LR DeP/DeP SPL/LR DeP/DeF SPL/LR DeP/DeP RF/LR DeP/DeP DeP/LR RF/LR DeP/DeP RF/LR DeP/DeF HSMGP DaL/HIP DeP/LR RF/HIP HIP/HIP DeP/LR DaL/HIP SVR/LR HIP/HIP DeP/LR HIP/HIP SPL/LR HIP/HIP DeP/LR HIP/HIP DeP/LE MONGODB HIP/RF SVR/SPL LR/RF SVR/SPL LR/RF SVR/SPL LR/RF SVR/SPI LR/RF SPL/SPL GP/DEC SPL/SPL HIP/RF SVR/SPL SPL/RF SVR/SPL RF/DEC DeP/SPL SPL/RF SVR/SPI POSTGRESQL RF/DEC DeP/SPL DEC/DEC SVR/SPL DEC/DEC DeP/SPL RF/DEC HIP/SPI RF/DEC DeP/SPL RF/DEC DeP/SPI EXASTENCILS LR/RF HTP/SPL RF/RF HTP/SPI RF/RF HIP/SPL RF/RF HTP/SPI RF/RF SPL/SPL GP/LR RF/RF SVR/SPL RF/RF HTP/SPI RF/RF HTP/SPI KANZI SVR/RF RF/RF GP/LR RF/RF GP/LR GP/LR RF/RF SPL/LR HIP/LR IUMP3R DaL/RF LR/LR SVR/RF SVR/RF SPL/LR SVR/RF LR/LR SVR/RF SVR/RF GP/LR SVR/RF LR/LR SVR/RF GP/LR Mariadb RF/RF DeP/DeP DaL/RF LR/LR RF/RF DeP/DeP SVR/LR RF/RF RF/RF DeP/DeP SVR/LR RF/RF DeP/DeP DeP/DeF DeP/DeP POLLY RF/RF RF/RF RF/RF LR/LR RF/RF SVR/LR DaL/RE RF/RF SVR/LR RF/RF SVR/LE SVR/RF DeP/SPL RF/DT LR/SVR GP/SPL SVR/SVR SQL LR/SPL GP/SPL RF/RF DeP/RF HIP/DT HIP/SPL DaL/RF GP/SPL DaL/RF HIP/DT GP/SPL DT/SPL RF/RF RF/RF SVR/SVR SVR/SVR VP9 LR/DT SVR/SVR RF/DT RF/DT SVR/SVR RF/DT SVR/SVR RF/DT SVR/SVI SPARK LR/RF DT/SVR RF/RF GP/SVR DaL/DT DeP/SPL RF/RF SPL/SVR DeP/SPL RF/RF SVR/SVF RF/RF DaL/RF RF/DT GP/SVR DeP/SPL RF/RF RF/RF SVR/SVI SVR/SPL HIPACC HIP/DT LR/SPL RF/DT RF/DT DeP/SPI RF/DT SPL/SPL RF/DT RF/DT DeP/SPI REDIS DaL/SVR DT/DeP RF/SVR GP/DeP RF/SVR HIP/DeP RF/RF DeP/DT RF/SVR DeP/DeP RF/SVR DT/DeP RF/RF SPL/DT RF/SVR RF/RF DeP/DeP RF/SVR DT/DeP RF/SVR DT/DeF DaL/RF DeP/DT DaL/RF DeP/DT DaL/RF DaL/RF DeP/DT RF/RF DeP/DT STORM DeP/DT DeP/DT RF/DT DeP/SPI RF/RF GP/DeP LR/DT DeP/SPI RF/DT DEC/SPI SPL/DT DeP/SPI SPL/DT DeP/SPI DEC/DT SPL/SPL RF/RF DeP/DeP DT/DT RF/RF DeP/SPI DT/DT SVR/SPI HADOOP RF/RF SPL/DeP RF/RF SVR/DeP RF/RF HIP/DeP RF/RF HIP/DeP RF/RF DeP/DeP DeP/DeP RF/RF DT/DeP LR/DT SVR/LR RF/RF DeP/DeP RF/DT SVR/LR DeP/DeP RF/RF DeP/DeP SVR/LR RF/DT DeP/LR RF/RF DeP/DeP RF/DT SPL/LR RF/RF DaL/DT DeP/DeP SVR/LR DeP/DeP SVR/LR RF/RF SVR/Del TOMCAT DaL/RF DeP/DeP RF/RF JAVAGO RF/DT DT/DT

(b) µRD and Performance ConEx Worst BestConfig Irace st Worst GGA ParamILS GA SWAY E_search System Best Worst Worst Best Best Worst Best Best Worst Best Worst Best Best Worst Best Worst BROTLI SVR/DT GP/DeP LLVM -/--/-RF/RF DeP/SVR LRZIP SVR/SVR LR/LR -/--/-XGBOOST RF/RF DT/SVR NOC-CM-LOG SVR/RF GP/SPL DEEPARCH BDBC -/--/-RF/DT DeP/SVR HSOLDB RF/RF DT/GP RF/DT DeP/SPI GP/DT SVR/SPL DT/DT SVR/SPL DaL/DT SVR/SPI RF/DT SPL/SPL HIP/DT SVR/SPL HIP/DT SVR/SPL HIP/DT SVR/SPI **DCONVERT** RF/DT SPL/LR DeP/SPL DaL/DeP DaL/DT RF/LR SVR/SPL RF/DT SPL/LR DeP/SPL DeP/DeP RF/DT SPL/LR SVR/SPI DaL/DT SPL/LR SPL/SPL DeP/DeP DaL/DT RF/LR DeP/SPL DeP/DeP SVR/SPI DaL/DT RF/LR GP / SPI APACHE DeP/DeF DeP/DeP DeP/DeP HIP/HIP DeP/SPL LR/RF SVR/SPL HIP/HIP SPL/SPL LR/RF SPL/SPL DaL/HIP DeP/SPL HIP/RF SVR/SPL HSMGP Dat./HTP DeP/SPI RF/HTP SVR/SPI HIP/HIP DeP/SPI HIP/HIP DeP/SPI HIP/HIP DeP/SPI LR/RF SPL/SPL
GP/DT SPL/SPL
RF/RF SPL/SPL Mongodb HIP/RF SVR/SPL SVR/SPL SVR/SPI SVR/SPL SPL/RF SVR/SPI LR/RF LR/RF SPL/RF RF/DT DeP/SPL LR/RF HIP/SPL POSTGRESOL. DEC/DT SVR/SPI DEC/DT DeP/SPL RF/DT HTP/SPI RF/DT DeP/SPL RF/DT DeP/SPI RF/DT DeP/SPI EXASTENCILS RF/RF SVR/SPL GP/GP HIP/GP SPL/DeP KANZI SVR/RF LR/GP RF/RF GP/GP RF/RF GP/GP RF/RF GP/GP RF/RF RF/RF GP/GP RF/RF GP/GP RF/RF GP/GP JUMP3R LR/GP SVR/SVR SVR/SVR SVR/SVR SVR/SVR SVR/SVR SPL/GP GP/GP MARIADB DeP/DeP RF/RF DeP/DeP RF/RF DeP/DeP RF/RF DeP/DeP RF/RF DeP/DeP RF/RF RF/RF RF/RF DeP/DeP RF/RF DeP/Del SVR/LR GP/SPL POLLY LR/LR RF/RF RF/RF RF/RF SVR/LR DeP/RF HIP/SPL HIP/DT SVR/SVR SOL SVR/RF DeP/SPL RF/RF LR/SPL RF/RF GP/SPL RF/RF GP/SPL DaL/RF DaL/RF GP/SPL RF/RF DT/SPI VP9 SPARK RF/DT LR/RF LR/SVR DT/SVR LR/DT SVR/SVR RF/RF GP/SVR RF/DT SVR/SVR RF/RF SPL/SVR RF/DT SVR/SVR RF/RF SVR/SVR RF/DT DaL/RF RF/DT SVR/SVF RF/RF SVR/SVF SVR/SVR HIP/DT SVR/SVR RF/RF DeP/SVR RF/RF DeP/SVF GP/SVR HIP/DT DaL/RF LR/SPL DT/DeP DaL/DT DeP/SPI RF/RF GP/DeP RF/DT SVR/SPI RF/RF DT/DeP HIPAcc RF/DT DeP/SPL RF/RF HIP/DeP DeP/SPL RF/DT DeP/SPI RF/RF DeP/DeP SPL/SPL RF/DT DeP/SPL RF/DT DeP/SP: RF/RF DT/DeF REDIS RF/RF RF/RF DeP/DeP DT/DeP STORM SAC DaL/DT DeP/SPL LR/DT DeP/DeP DaL/DT RF/DT DeP/SPL DEC/DeP RF/DT DeP/SPL SPL/DT DeP/DeP DaL/DT DeP/SPL SPL/DT DeP/DeP RF/DT DEC/DT RF/DT DeP/SPL DaL/DT DT/DT DeP/DeP DT/DT RF/DT RF/DT SPL/SPL DeP/SPI DeP/SP1 SVR/DeP DeP/DeP DeP/DeP SPL/DeP HADOOP RF/RF RF/RF SVR/DeP RF/RF HIP/DeP RF/RF HIP/Del RF/RF DeP/DeP RF/RF DeP/DeP RF/RF DeP/DeP RF/RF GP/Del DeP/SVR TOMCAT RF/RF DeP/SVR RF/RF DeP/SVR RF/RF DeP/SVR RF/RF DeP/SVR RF/RF RF/RF SVR/SVF DeP/SVR JAVAGC SVR/SPL RF/DT SVR/SPL RF/DT SVR/SPL RF/DT DeP/SPI RF/DT SPL/SPL DaL/DT SVR/SPL DT/DT SVR/SPL RF/DT

TABLE 4: The best and worst results of EFF. and MAPE/µRD in BMBO. Formats are the same as Table 1.

(a) MAPE and Efficiency BestConfig ParamILS Irace GGA GA SWAY System Wors Worst Best Worst Worst Best Worst Worst Worst Worst Best Best Best Worst Best Best Best Best Brotli SVR/DaL DeP/SPL HIP/RF SVR/GP SVR/GP SPL/LR LLVM LRZIP XGBOOST -/--/--/--/--/--/-RF/RF SVR/SPL NOC-CM-LOG SVR/DT -/-DEEPARCH RF/RF LR/SPL HIP/LR DEC/DT HSOLDB RF/DaL SPL/GP DeP/DT DT/SPL aL/DT DEC/SPI DaL/DT SVR/SPI HIP/DT DeP/SPI DEC/DT SPL/SPI SPL/DT SVR/SPI RF/DT SVR/SPI DEC/DT SVR/SPI DT/DT GP/LR SPL/LR DaL/Del RF/DT SVR/LR DaL/DT SVR/LR RF/DT LR/LR DT/DT SPI./LR Dat./DT GP/LR RF/DT SVR / LR Dat./DT GP/LR APACHE HSMGP DT/DeP SPL/LR DeP/DeP DeP/DeP SPL/LR DeP/DeP LR/LR DT/DeF SVR/LR SVR/SPI Dat/HTP SPL/LR RF/HTP DeP/LR RF/HTP SVR/LR HIP/HIP DEC/LF HTP/HTP SPL/LR RF/HTP GP/LR T.R/HTP HIP/HIP DeP/LR GP/RF SPL/SPL Mongodb SVR/RF GP/SPL RF/RF SVR/SPI GP/RF RF/DEC SPL/SPL POSTGRESOL DeP/DEC DaL/SPL LR/DEC HIP/SPL HIP/DEC DT/SPL DeP/DEC DT/SPL SPL/DEC HIP/SPL DaL/DEC GP/SPL DT/DEC DeP/SPI GP/RF DeP/SPL GP/SPL EXASTENCILS DaL/RF GP/SPL RF/RF DeP/RF SVR/SPI DT/RF GP/SPL DEC/RF GP/SPL DT/RF SVR/SP RF/RF RF/RF SVR/LR KANZI DeP/RF DT/LR GP/RF RF/LR RF/RF DeP/LR RF/RF DEC/LR GP/LR SVR/RF Dat / LR RF/RF DeP/LR SVR/RF HIP/RF JUMP3R RF/RF DeP/LR LR/RF SPL/LR SPL/LR DT/LR LR/LR DeP/LR SVR/RF SPL/LR GP/LR MARIADB DeP/DeP DeP/LR DT/SPL LR/RF DeP/DeP GP/RF DT/RF LR/DeP DT/RF DeP/DeP SPL/Del DT/RF DeP/DeP RF/RF DeP/DeP RF/RF DeP/DeF POLLY SQL RF/RF SVR/RF LR/LR LR/SPL LR/LR DT/SPL DEC/RF DT/RF LR/LR LR/SPL GP/RF HIP/RF SVR/RF HIP/LR DT/SPL DT/LR DEC/SPL SPL/RF LR/RF GP/RF GP/RF DeP/RF DEC/SPI GP/RF LR/SPL DeP/RF LR/RF RF/SVR VP9 SPARK RF/DT DeP/SVR GP/RF DaL/SVR HIP/DT SVR/SVF DaL/RF SVR/SVF DeP/DT DT/SVR DeP/DT HIP/DT SVR/SVF DaL/DT GP/SVR HIP/DT SVR/SVR LR/RF GP/SVR LR/RF GP/SVR LR/RF DeP/SVF DEC/RF GP/SVR DT/RF SPL/SVR DaL/RF LR/SVF DeP/DT SVR/SPL DT/SVR DeP/DeP DaL/DT SVR/SPI HIP/SVR SVR/DeF RF/DT GP/SVR SVR/SPI HIPACC HIP/DT GP/SPL RF/DT LR/SPI SPL/SPL DaL/DT SVR/SPI LR/DT DeP/SPI RF/DT DEC/SVR GP/DeF REDIS GP/SVR HIP/DeP DT/SVR SVR/DeP DaL/Del aL/SVR GP/DeP DEC/SVR DaL/DeP STORM SAC DeP/RF DT/DT SPL/RF RF/DT SPL/DT SVR/SPI LR/RF DEC/DT DeP/DT RF/RF DeP/DT DaL/DT DeP/SPI DaL/RF SPL/DT GP/RF DeP/DT
DT/DT DeP/SPL SVR/RF LR/DT SPL/RF DaL/DT SVR/SPI DT/DT SVR/SPI SPL/DT DeP/SPI LR/SPI DT/DT DEC/DT SVR/SPI HADOOP TOMCAT DT/RF GP/DeP DEC/RF SVR/DeP DeP/DeP SVR/DeP DeP/DeP HIP/DeP DaL/RF SVR/RF LR/DeP DEC/RF HIP/DeF DaL/RF HIP/DeF GP/RF RF/RF DEC/RF DaL/RF HIP/RF DEC/RF DT/DeP RF/DeP SVR/RF DeP/DeP RF/RF SPL/DeF GP/RF RF/DeP DT/DeP DEC/RF SPL/Del JAVAGC DeP/DT SVR/LR DaL/DT GP/LR GP/LR DEC/DT SVR/LR DT/DT SVR/LR DaL/DT DeP/LR DaL/DT GP/LR RF/DT SVR/LR

(b) μRD and Efficiency ConEx Worst SWAY Worst GA Worst BestConfig Best Worst E_search est Worst Irace st Worst R_search System Best Best Worst Best Best Best Best Best Best Best Worst Worst Brotli SVR/DT DeP/DeP HIP/RF SVR/SVR LLVM -/--/--/-SVR/SVR SPL/LR LRZIP XGBOOST NOC-CM-LOG -/--/--/--/--/--/-RF/RF SVR/SVR SVR/RF DEEPARCH BDBC -/-RF/RF LR/SVR DEC/DT HIP/SVR **HSOLDB** RF/RF SPL/GP **DCONVERT** DeP/DT DT/SPL DaL/DT DEC/SPI DaL/DI SVR/SPL HIP/DT DeP/SPI DEC/DT SPL/SPI SPL/DT SVR/SPI RF/DT SVR/SPI DEC/DT SVR/SPI 7z Apache RF/DT SPL/LR SVR/SPI DT/DT GP/SPL DaL/DT SVR/SPL RF/DT LR/SPL DT/DT SPL/SPL DaL/DT GP/SPL RF/DT SVR/SPL DaL/DT GP/SPL DT/DeP SPL/LR LR/LR DT/DeP SPL/LR GP/DeP SVR/LR LR/LR SPL/LR DaL/DeF DeP/DeP SPL/LR DeP/DeP DeP/DeP GP/DeF SVR/SPL HIP/HIP DEC/SPI HIP/HIP SPL/SPL HSMGP RF/HIP DeP/SPL RF/HIP RF/HIP SVR/SPL HIP/HIP SVR/SPL HIP/RF DaL/HIP SPL/SPL LR/HIP Mongodb SVR/SPL LR/RF DEC/SP: DeP/DT DT/SPI DEC/RF SPL/SPL RF/DT SPL/SPL GP/RF SPL/SPL SVR/RF GP/SPL RF/RF DEC/SPI SPL/RF SVR/SPI GP/RF HIP/RF SVR/SPI POSTGRESQL EXASTENCILS LR/DT HIP/SPL GP/RF DeP/SPL RF/DT DT/RF DeP/DT DaL/SPI HIP/DT RF/RF DT/SPL GP/SPL SPL/DT HIP/SPI GP/SPL GP/SPL GP/SPL DeP/RF SVR/SPI DaL/RF GP/SPL DEC/RF GP/SPL DeP/RF DT/RF SVR/SPI RF/RF DEC/GP SVR/SVR DT/GP KANZI DeP/RF DT/GP GP/RF RF/GP RF/RF DeP/GP RF/RF GP/GP RF/RF SVR/GP SVR/RF RF/RF DeP/GF DaL/GP LR/SVR SPL/GP IUMP3R DeP/GP SVR/SVR SVR/SVR GP/GP RF/SVR SVR/SVR SPL/GP LR/GP DT/SVR DeP/GP SVR/SVR SPL/GP Mariadb GP/RF DeP/DeP DT/RF LR/DeP DeP/DeP DeP/DeP SPL/DeP DT/RF DeP/DeP DeP/DeP SVR/RF LR/LR HIP/RF POLLY GP/RF DeP/LR RF/RF DEC/LR LR/LR DEC/RF LR/LR GP/RF HIP/LR GP/RF DT/LR SPL/RF LR/LR DeP/RF SQL DT/SPL SVR/RF LR/SPL RF/DT DeP/SVR DeP/RF GP/RF DT/SPL DT/RF LR/SPL LR/RF DT/SPL HIP/DT SVR/SVR DaL/DT GP/SVR GP/RF DEC/SPL LR/RF HIP/DT SVR/SVR HIP/DT SVR/SVR VP9 DeP/DT DT/SVR SVR/SVR DT/DT RF/SVR DeP/DT SPARK HIPACC LR/RF GP/SVR GP/RF DaL/SVR LR/RF GP/SVR LR/SPL LR/RF DaL/RF DEC/RF GP/SVR SPL/SVR DaL/RF DeP/DT SVR/SPL HIP/DT GP/SPL RF/DT DaL/DT SVR/SPI RF/DT SPL/SPL DaL/DT SVR/SPL DaL/DeP DaL/RF GP/DeP LR/DT SVR/SPL RF/DT DeP/SPI REDIS STORM DT/RF DeP/DeP
DeP/DT DT/SPL GP/RF HIP/DeF SPL/DT RF/SPL SVR/DeP HIP/RF SVR/DeF GP/RF DaL/DeP DEC/RF GP/DeF GP/DT DeP/SPL RF/DT DaL/DT SPL/SPL SVR/DT LR/DT DeP/SPL DeP/SPL LR/SPL SPL/DT DaL/SPI LR/DeP DeP/DeP DT/DT DeP/DeP SAC SPL/DT DeP/DeP SPL/DT SVR/DeP DEC/DT SVR/DeP DaL/DT DeP/DeP DT/DT DT/DT SVR/DeP DEC/DT SVR/DeE HADOOF DT/RF GP/DeP SVR/RF LR/DeP DEC/RF HIP/DeP DaL/RF HIP/DeP GP/RF DEC/RF DeP/DeP HIP/RF DT/DeP DaL/RF RF/DeF RF/RF SPL/SVR RF/SVR RF/RF SVR/SVR DaL/RF HIP/SVF JAVAGO DT/DT SVR/SPL DaL/DT DeP/SPL DaL/DT DeP/DT SVR/SPL DaL/DT GP/SPL HIP/DT GP/SPL DEC/DT SVR/SPL GP/SPL RF/DT SVR/SPI