1 Test matrices

Matrix	Patt. symm.	Num. symm.	Diag. dom.	Pos. def.	NNZ	n	Condition	Conn. comp.
add20	100%	52.7%	0%	No	13,151	2,395	1.204710e+04	1
c-20	100%	100%	0.48%	No	20,445	2,921	1.049837e+12	1
cryg2500	99.5%	0%	8.44%	No	12,349	2,500	3.631392e+16	1
dw2048	98.5%	94.8%	0%	No	10,114	2,048	2.093210e+03	1
orsreg_1	100%	41.2%	**100%**	No	14,133	2,204	6.745269e+03	1
pde2961	100%	50.1%	0%	No	14,585	2,961	6.424933e+02	1
wang1	100%	80.8%	0%	No	19,093	2,903	2.032301e+04	1

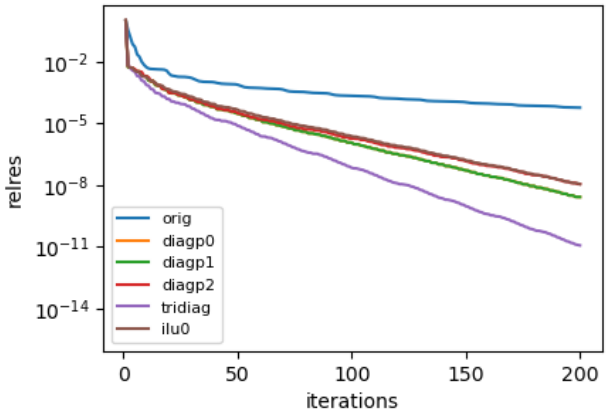
2 S coverage, degree[1]

Matrix	jacobi	tridiag	maxLF	maxST	minST
add20	0.5686	0.5698	0.9496	0.9997	0.6480
c-20	0.9994	0.9994	0.9996	0.9998	0.9996
cryg2500	0.5038	0.8796	0.9040	0.9064	0.5744
dw2048	0.5808	0.9140	0.9423	0.9437	0.6371
orsreg_1	0.5001	0.5003	0.9949	0.9954	0.5017
pde2961	0.5027	0.6310	0.8730	0.8742	0.6370
wang1	0.5008	0.7422	0.8795	0.8905	0.5316

Matrix	orig	jacobi	tridiag	maxLF	maxST	minST
add20	83				11	27
c-20	157				148	40
cryg2500	4				3	4
dw2048	7	0	2	2	5	4
orsreg_1	6				3	4
pde2961	4				3	3
wang1	6				5	6

3 Results

[1] S degree $:= \max_{i \in [n]} |\{j \mid A_{ij} \neq 0\}| - 1$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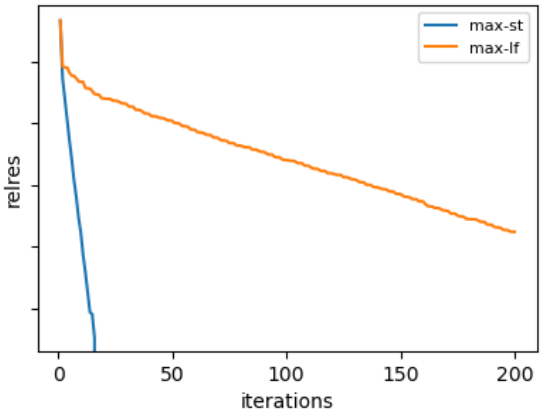
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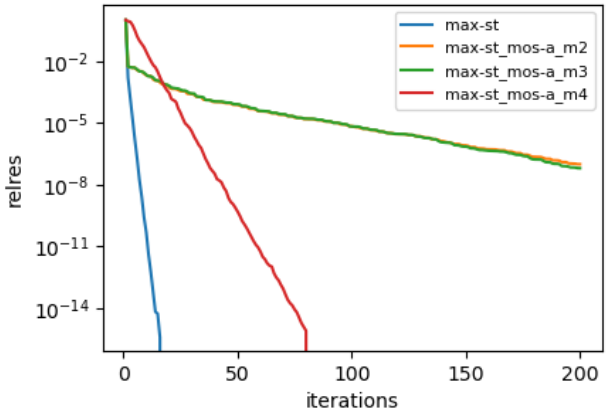
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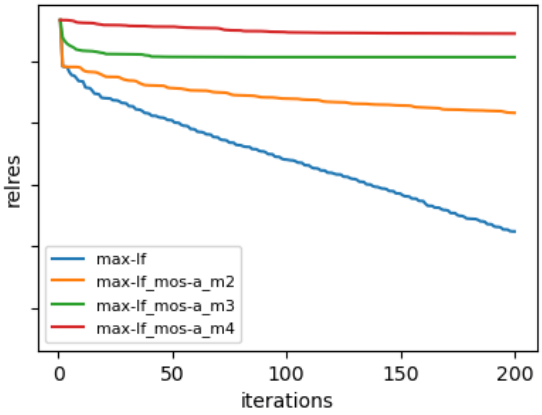
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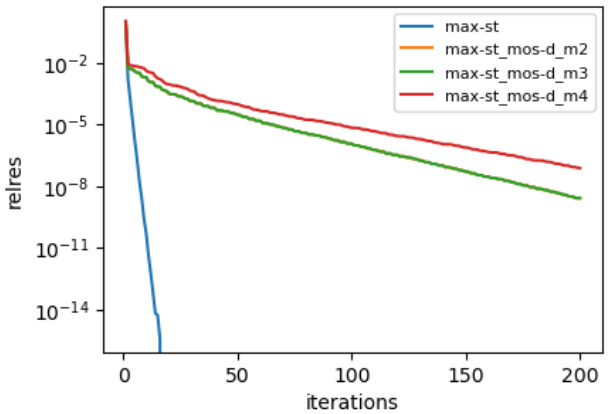
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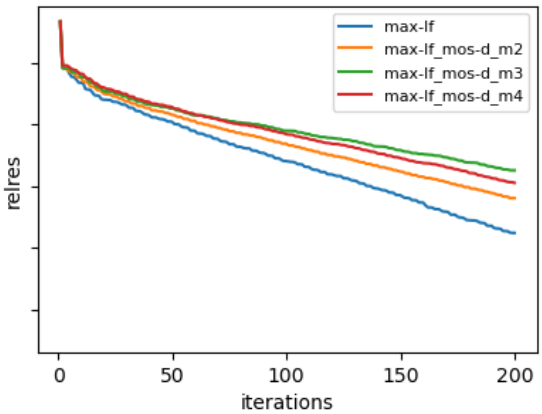
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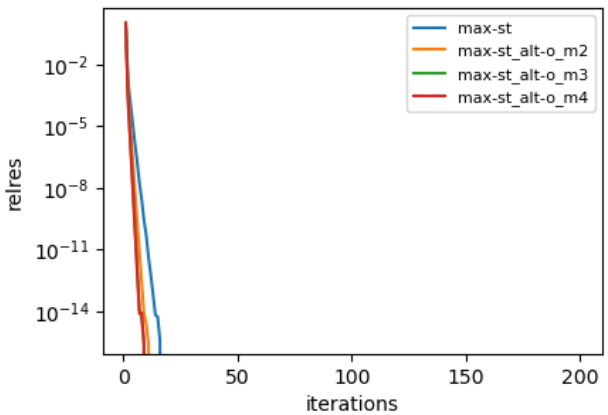
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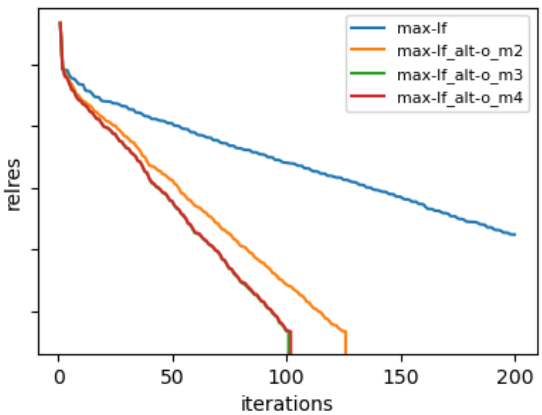
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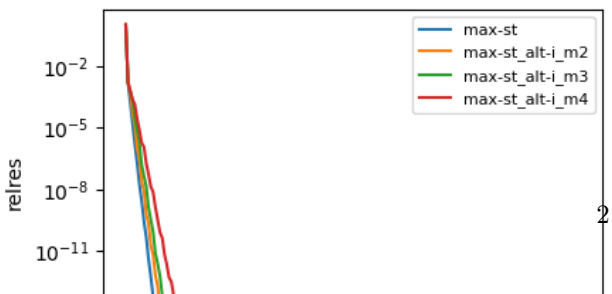
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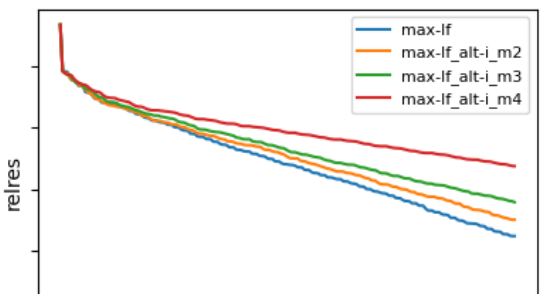
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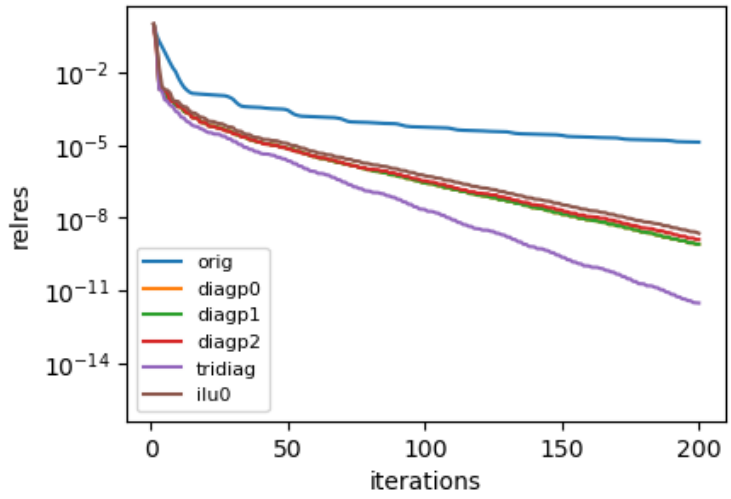
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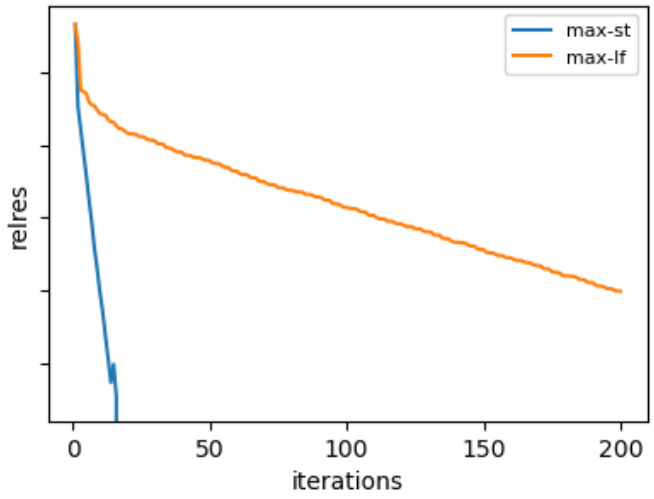
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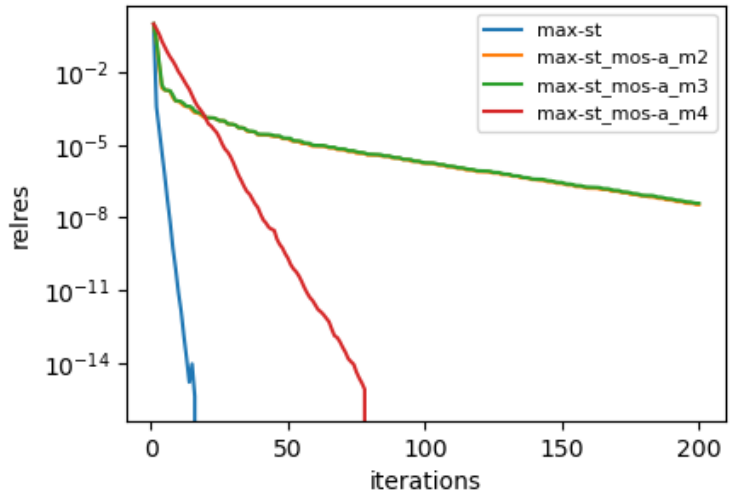
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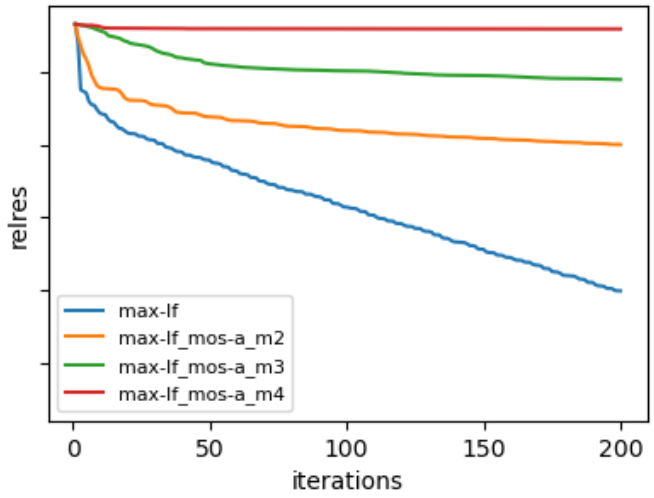
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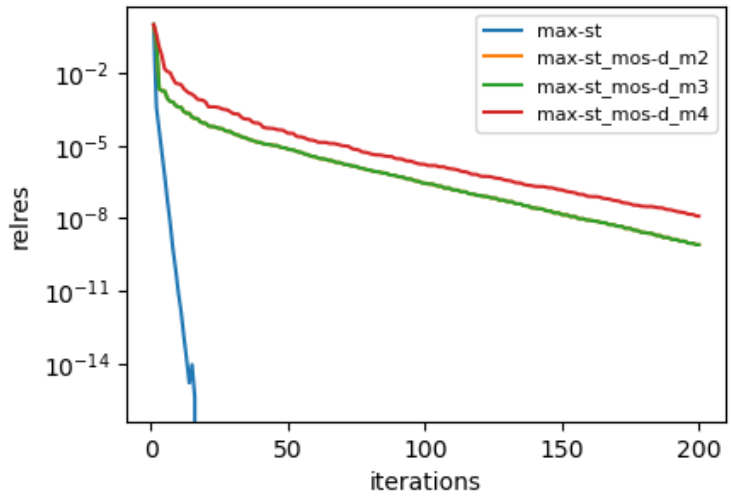
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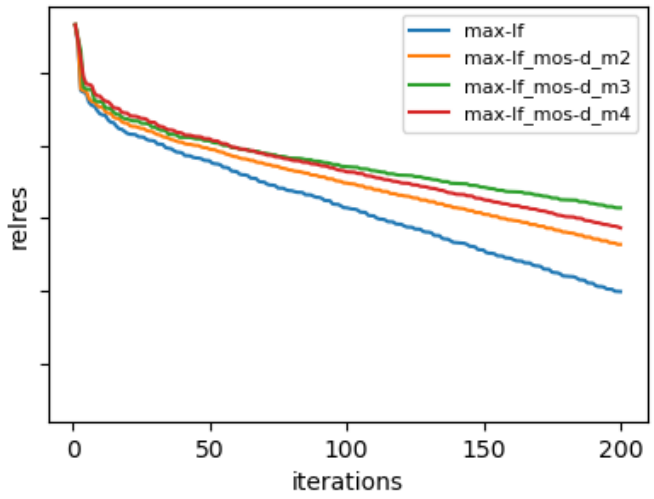
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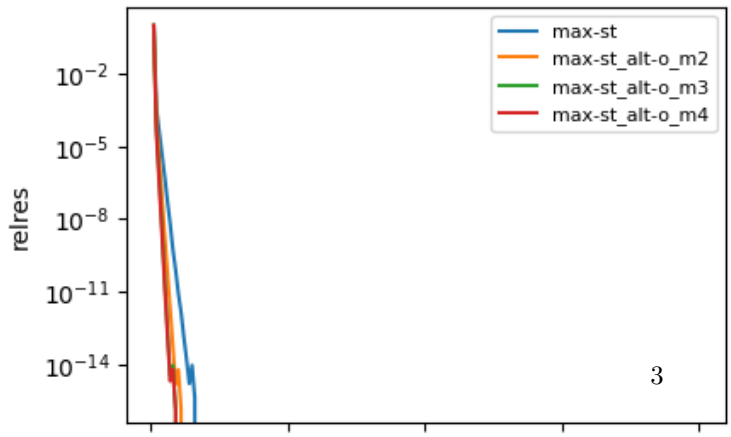
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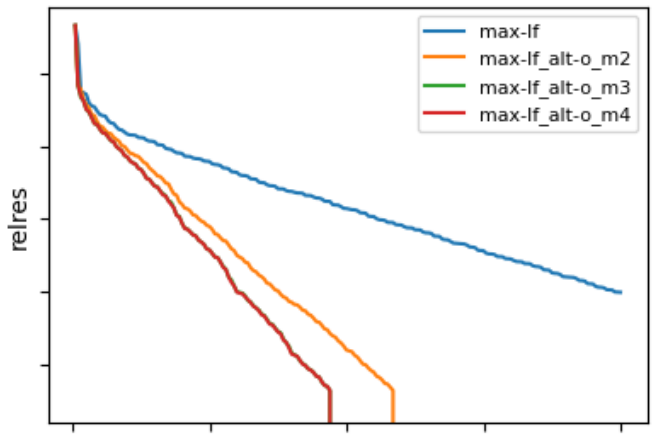
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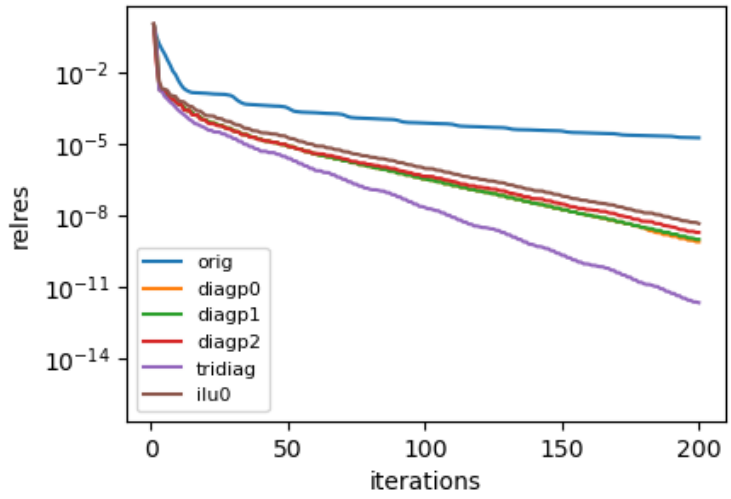
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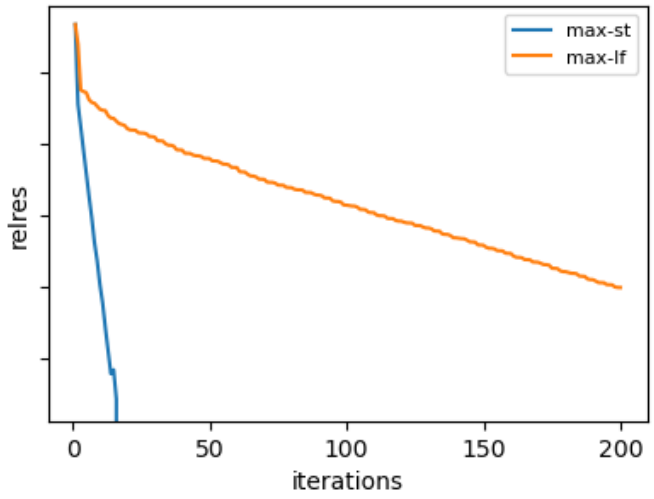
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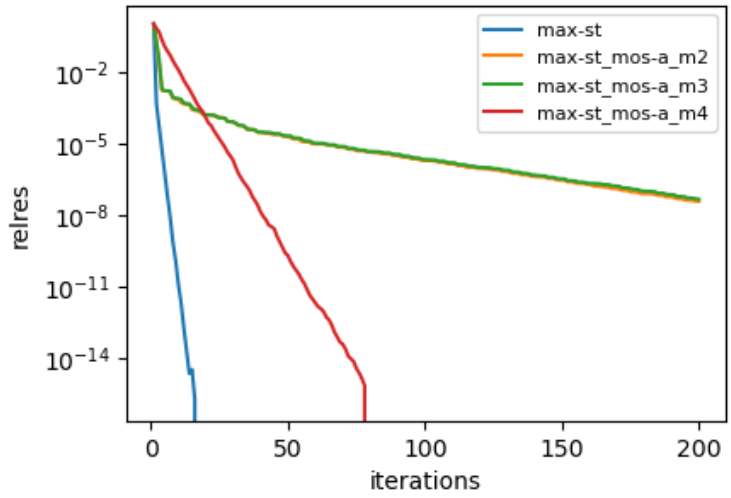
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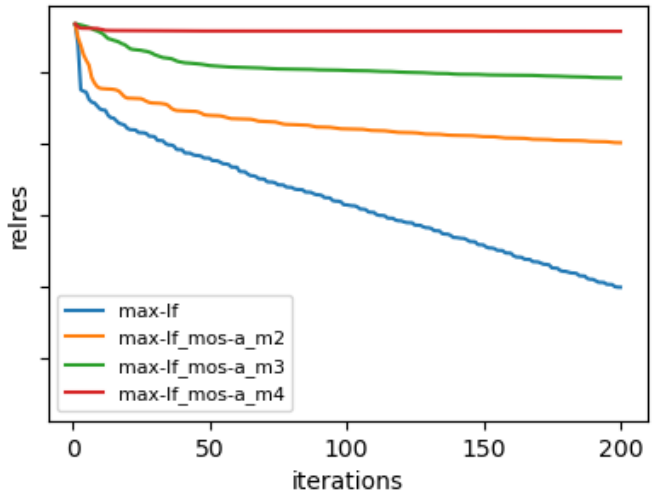
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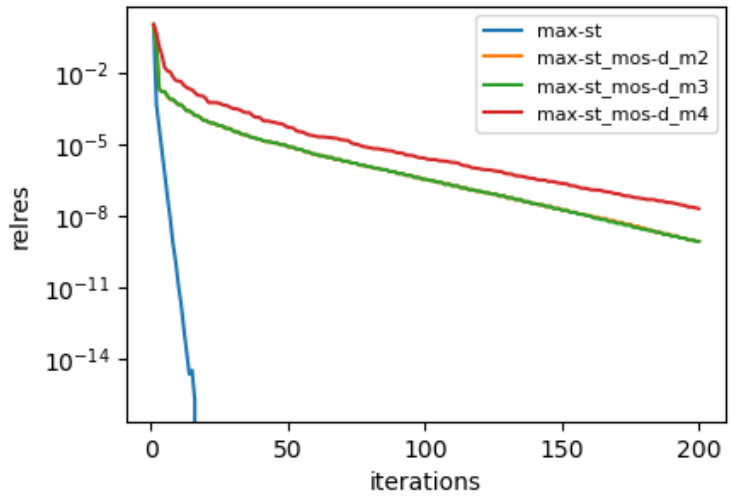
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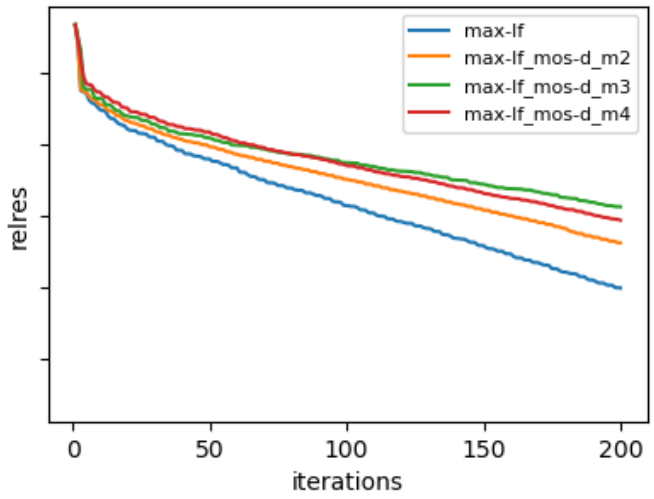
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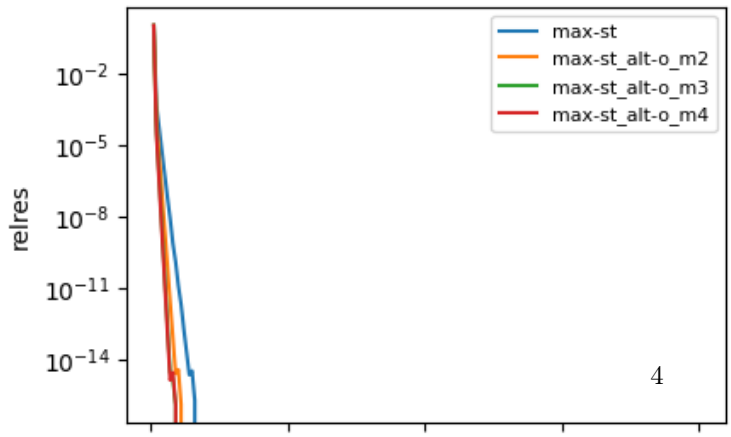
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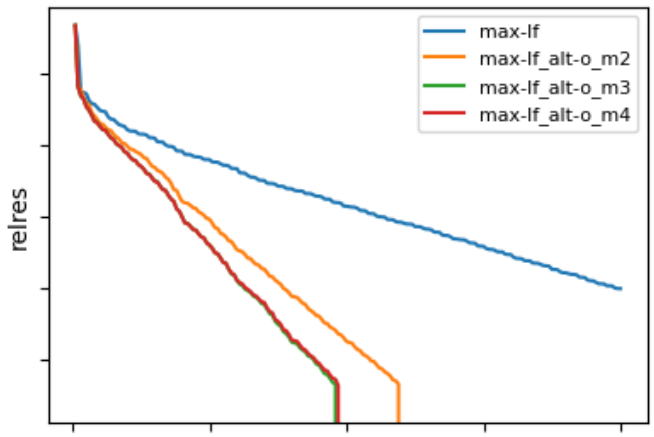
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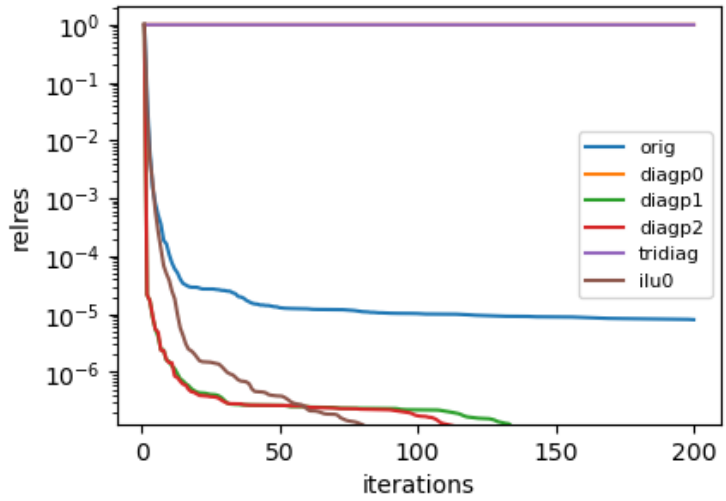
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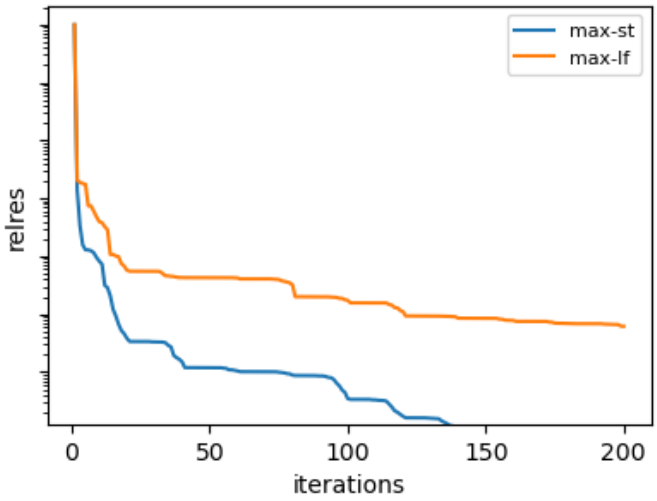
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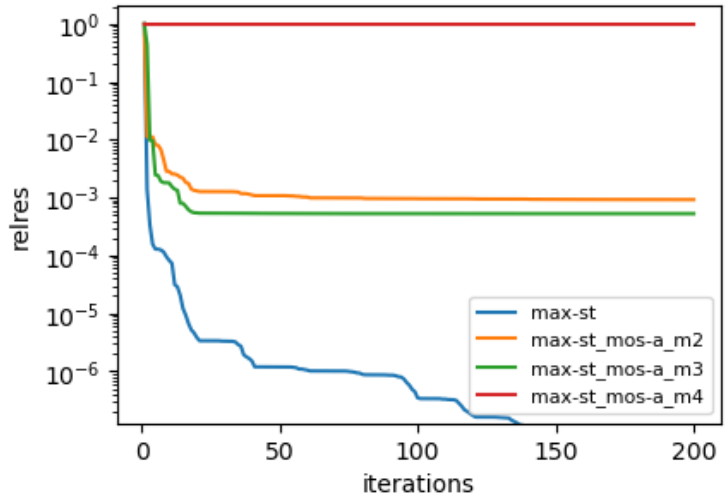
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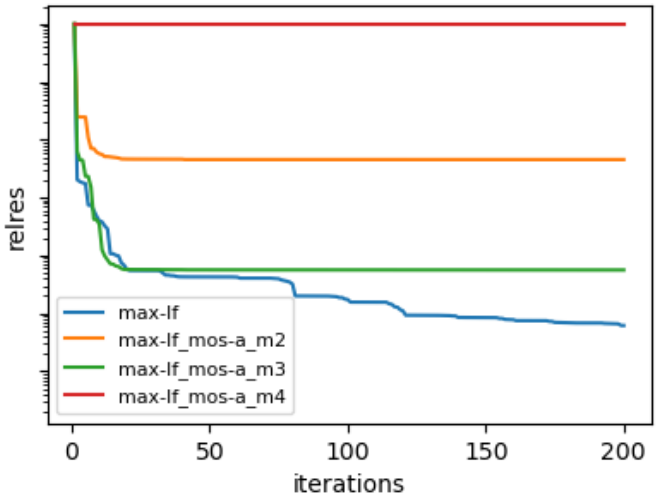
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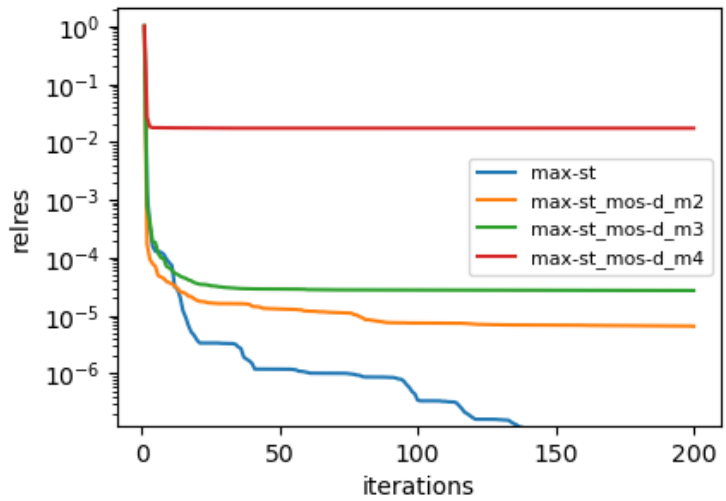
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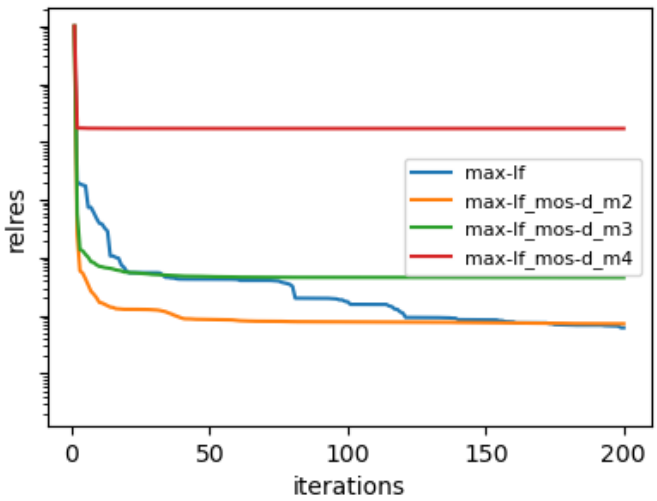
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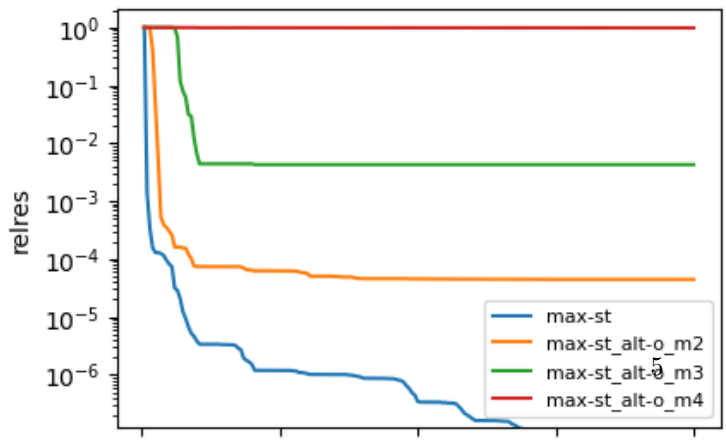
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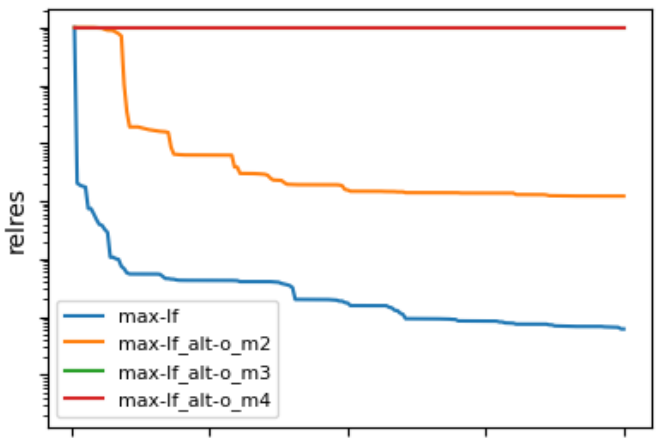
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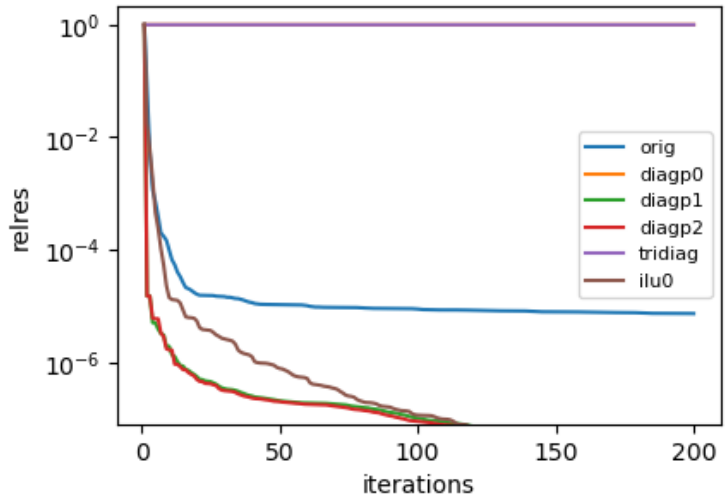
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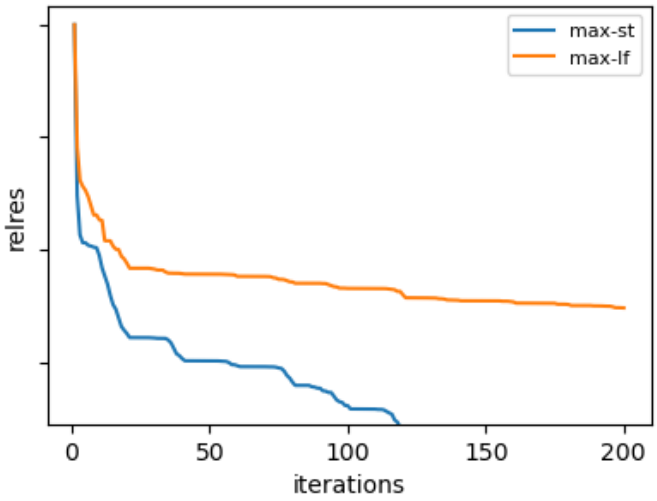
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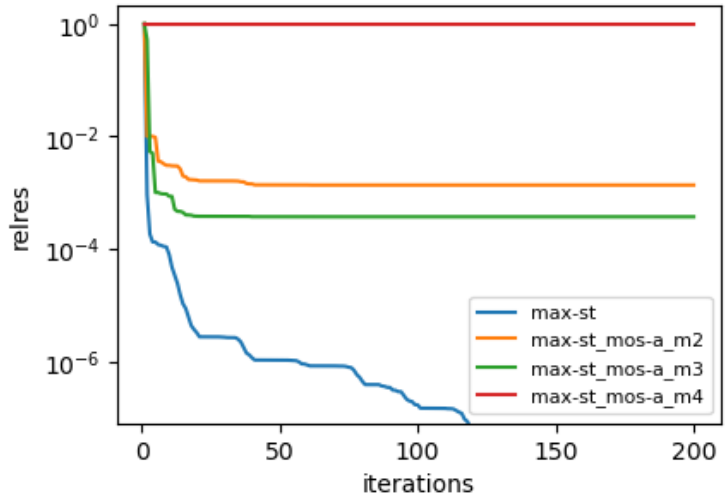
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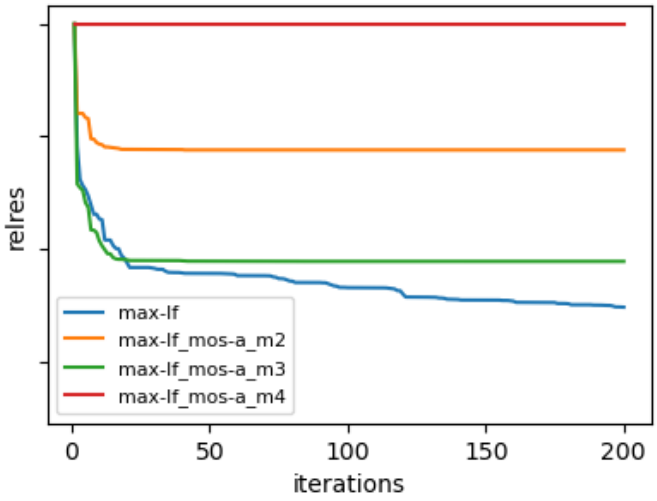
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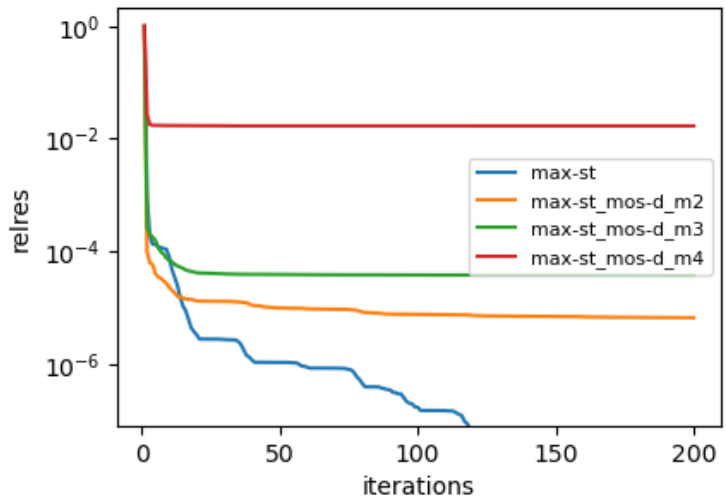
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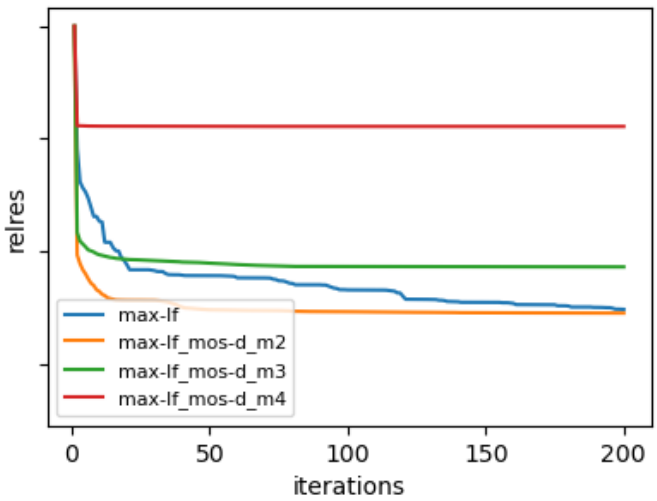
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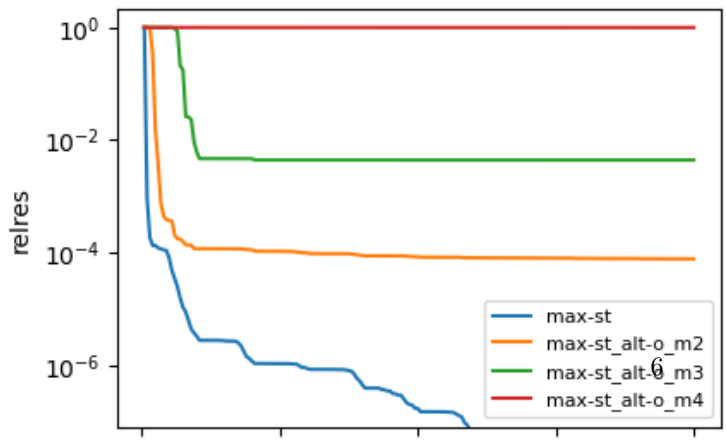
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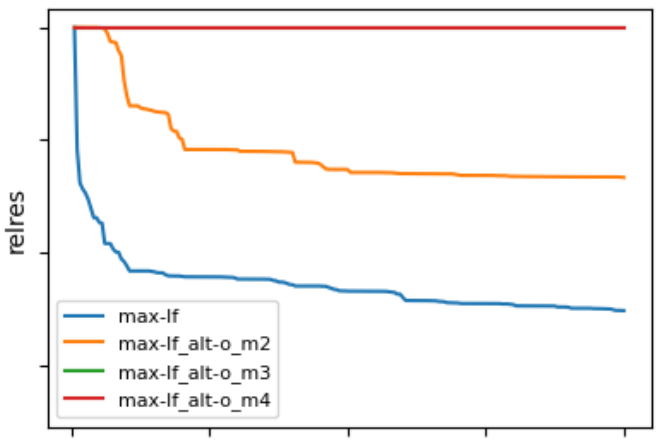
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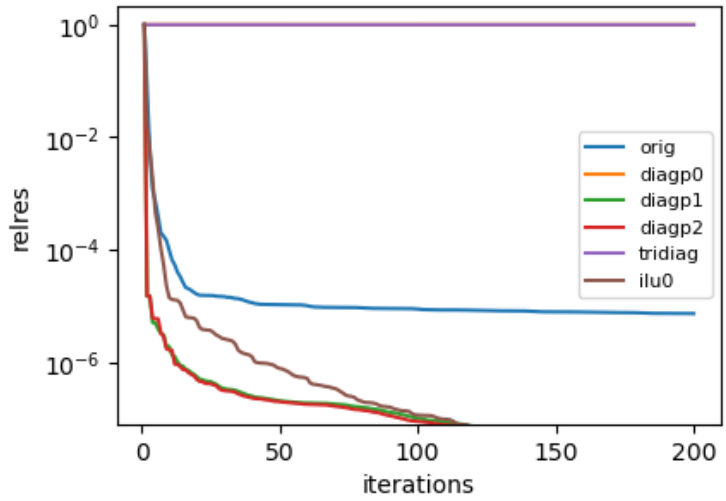
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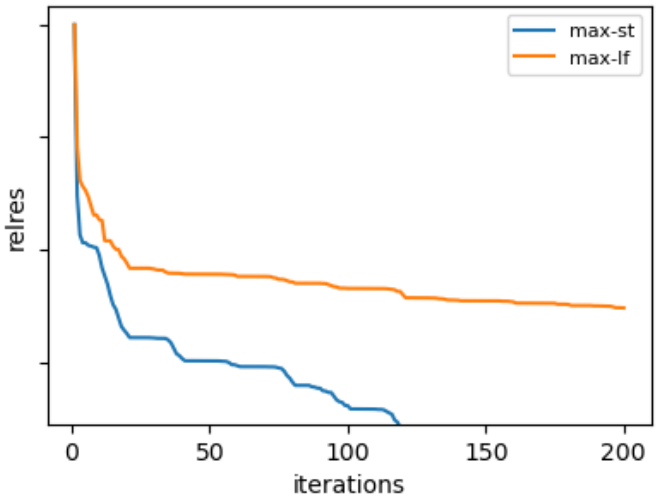
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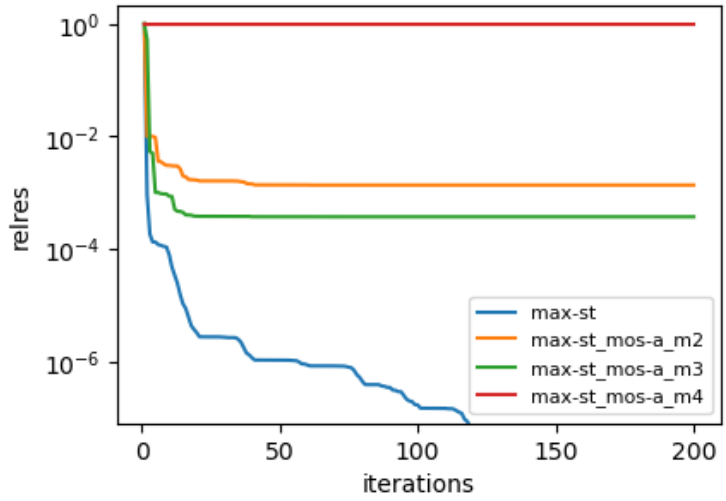
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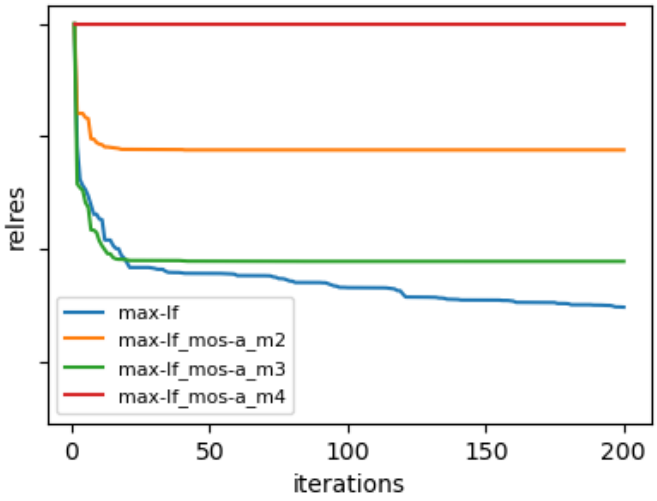
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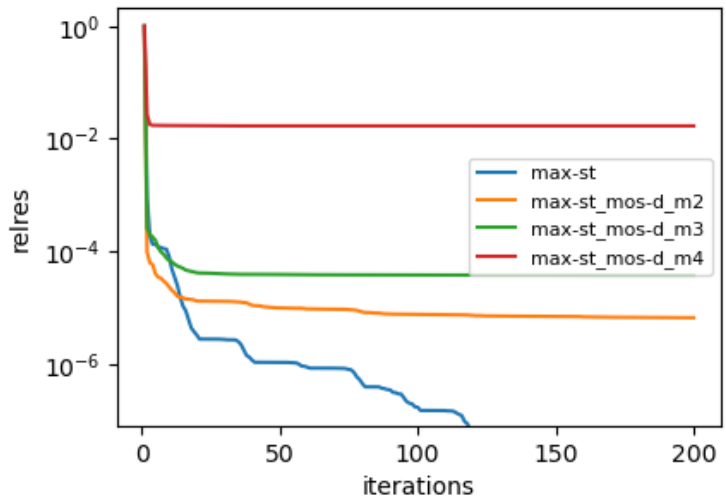
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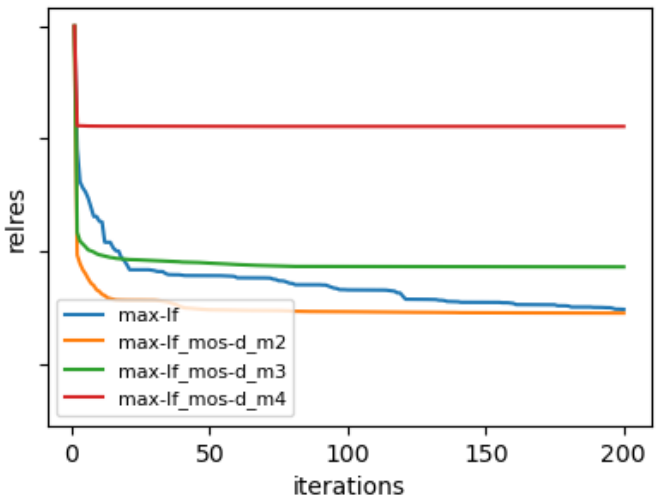
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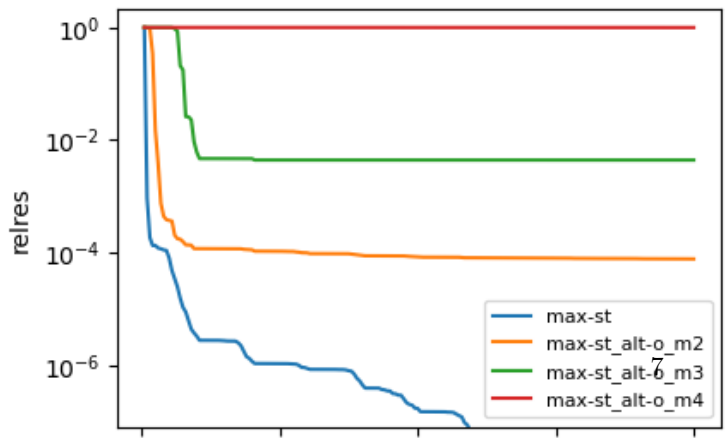
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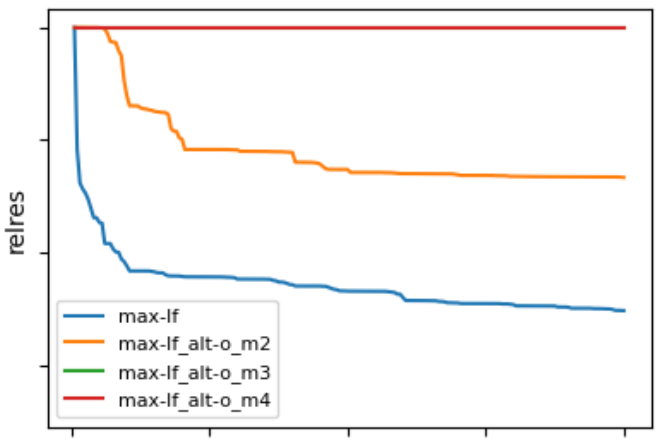
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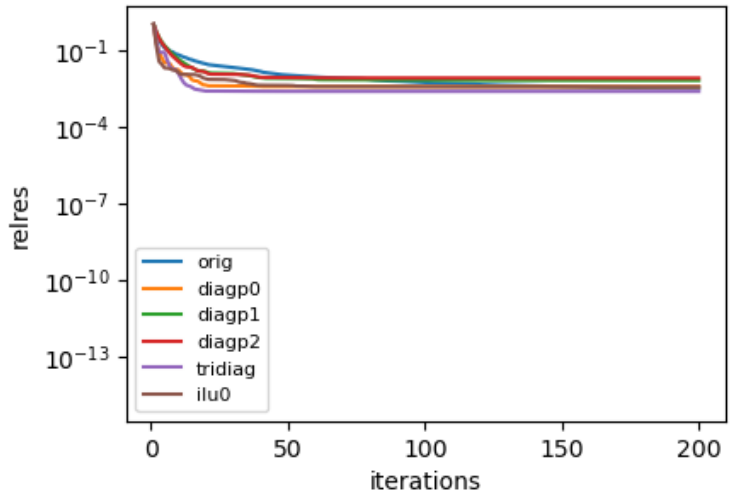
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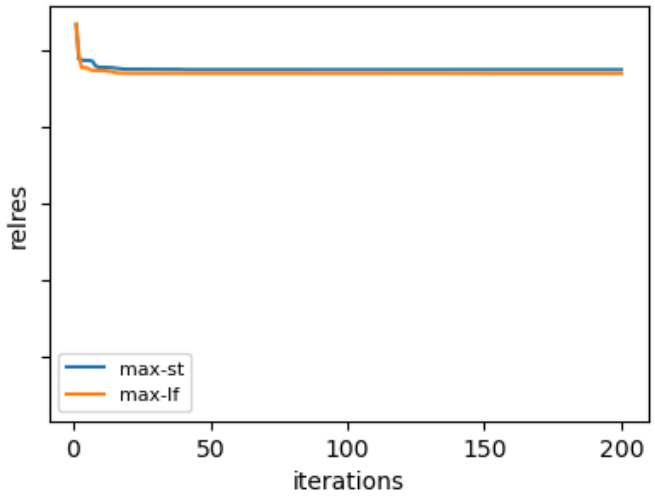
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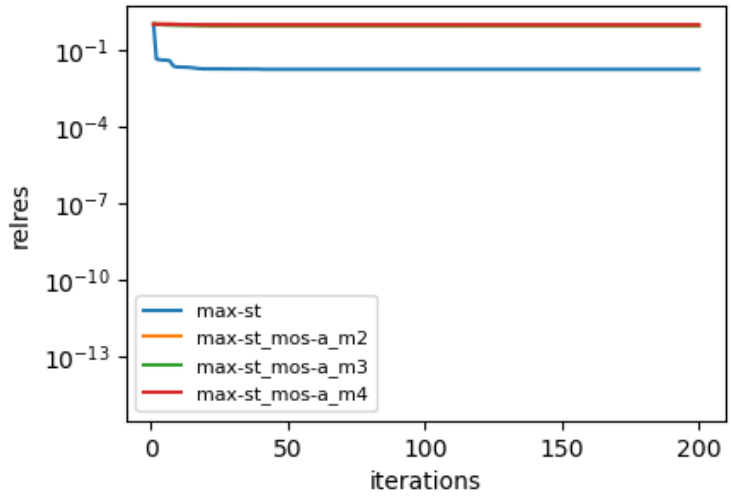
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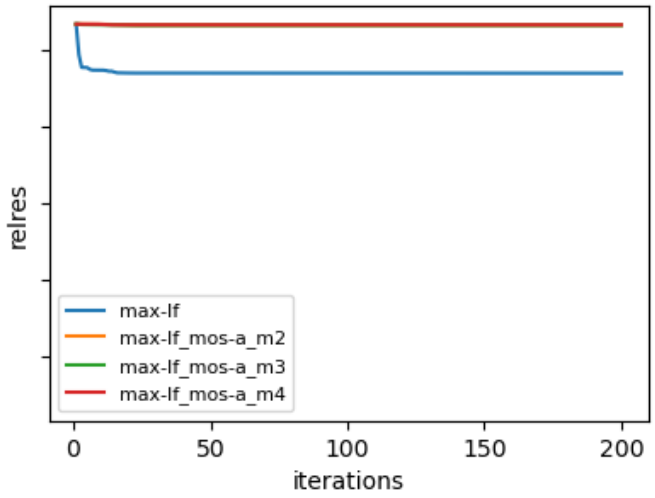
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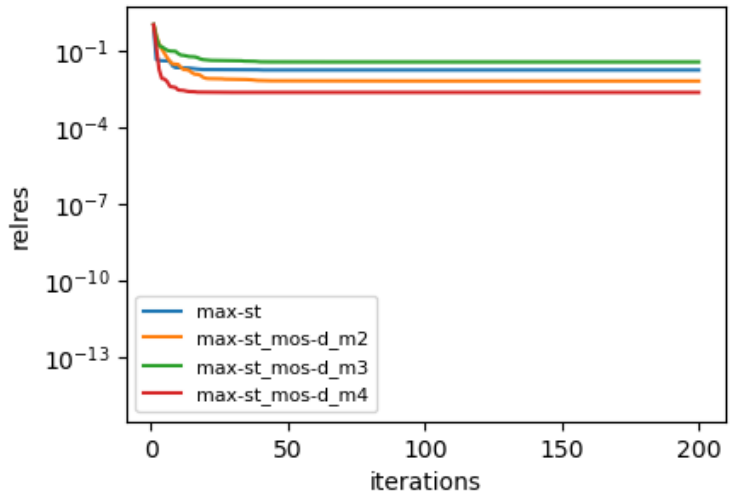
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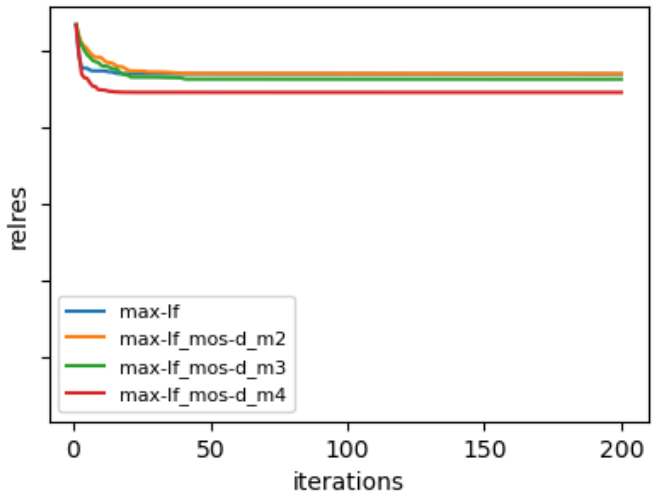
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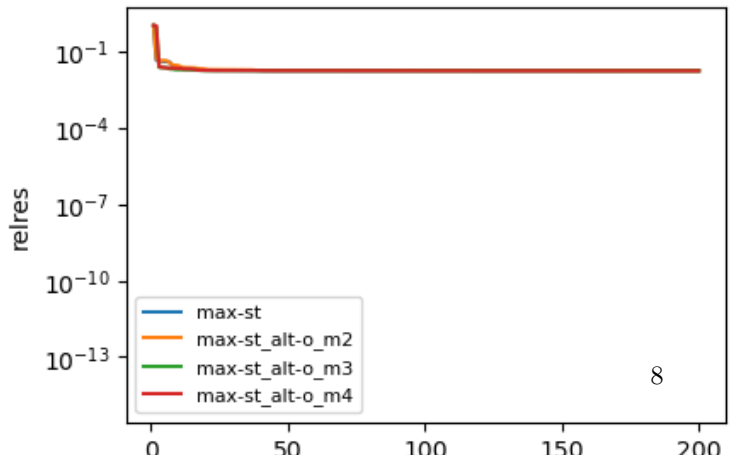
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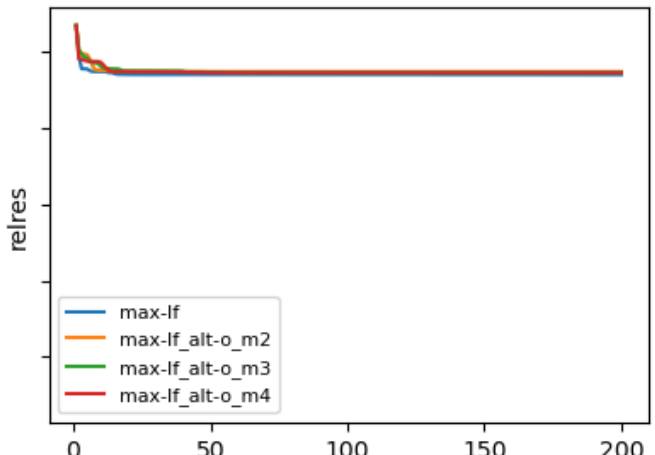
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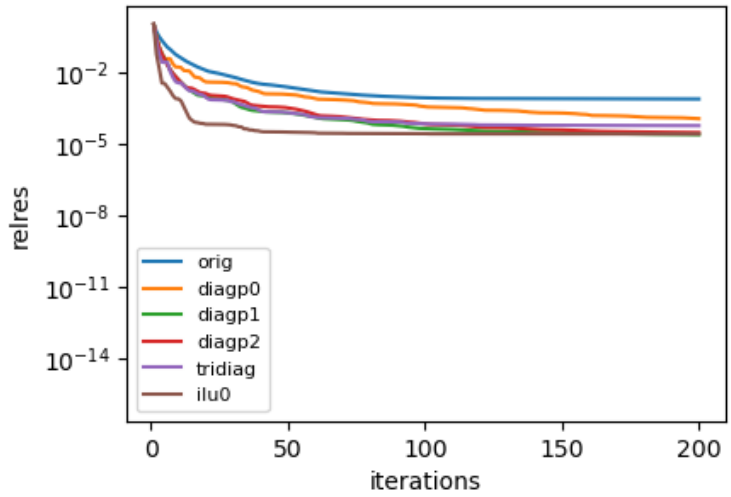
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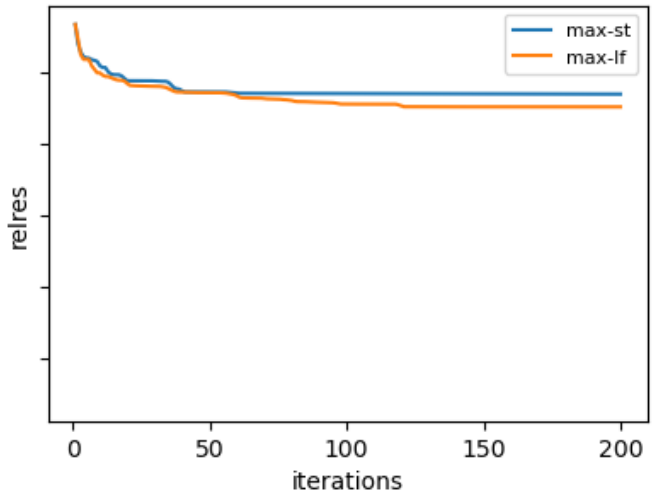
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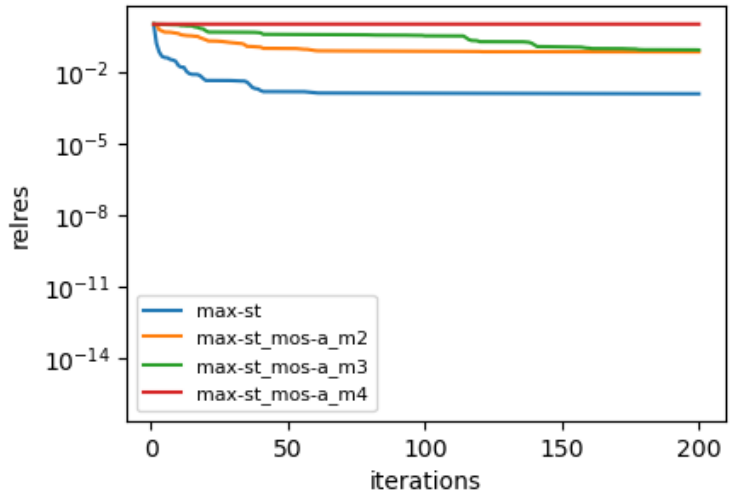
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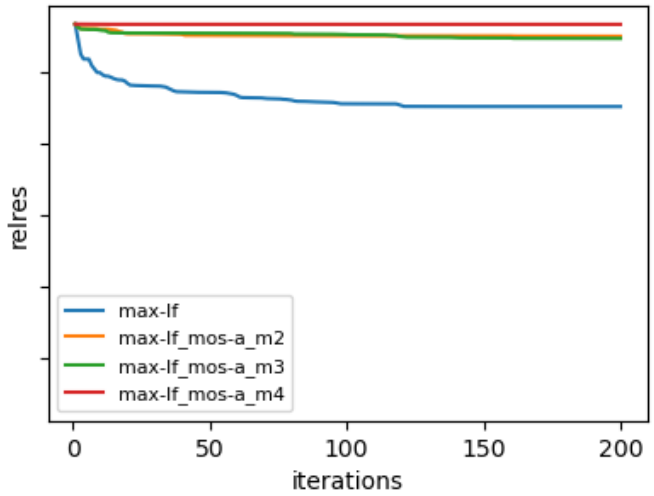
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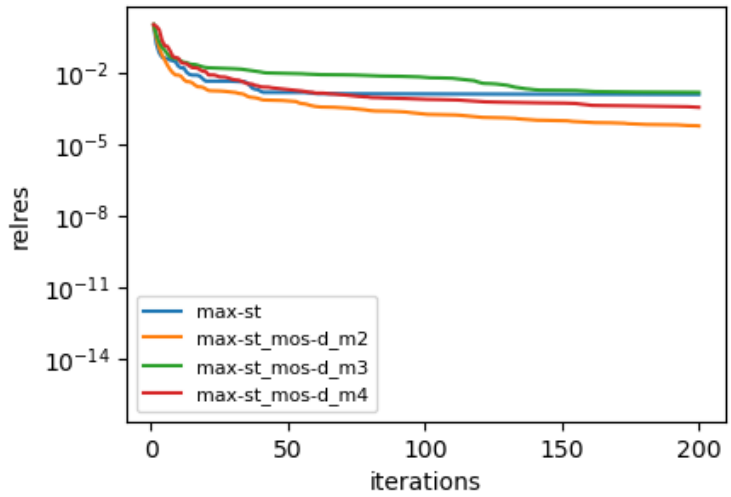
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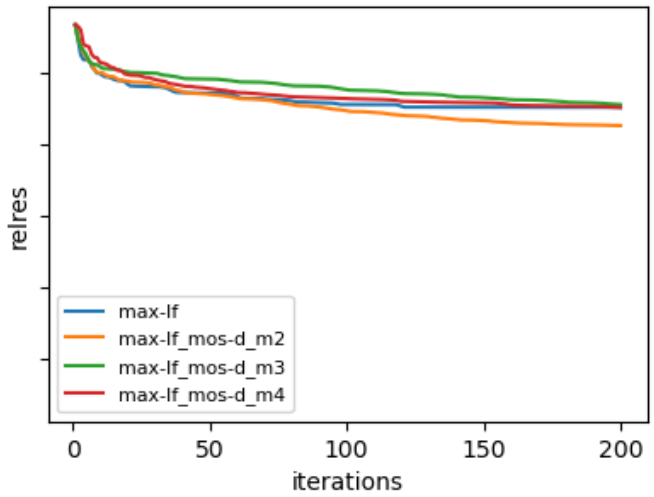
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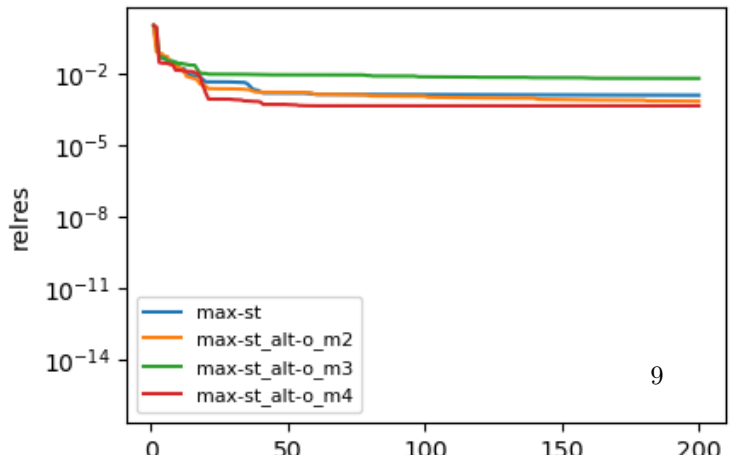
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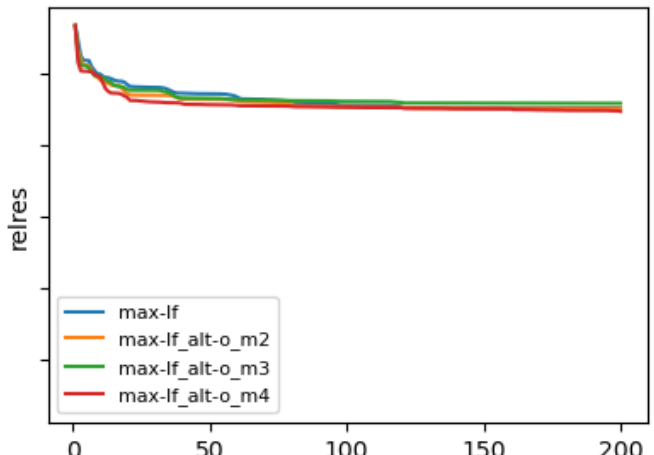
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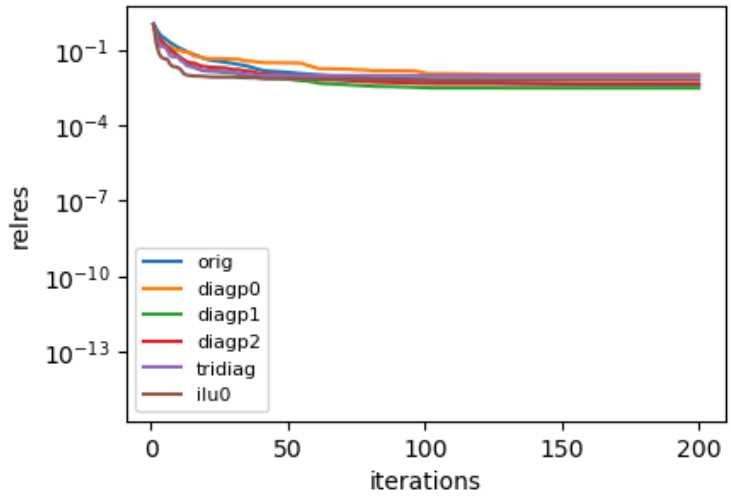
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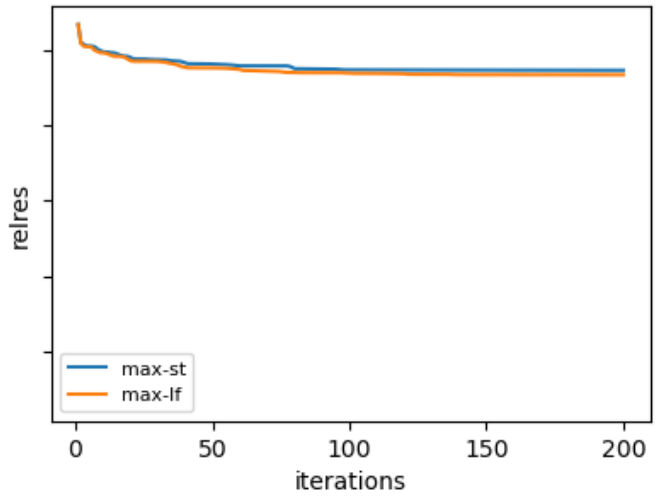
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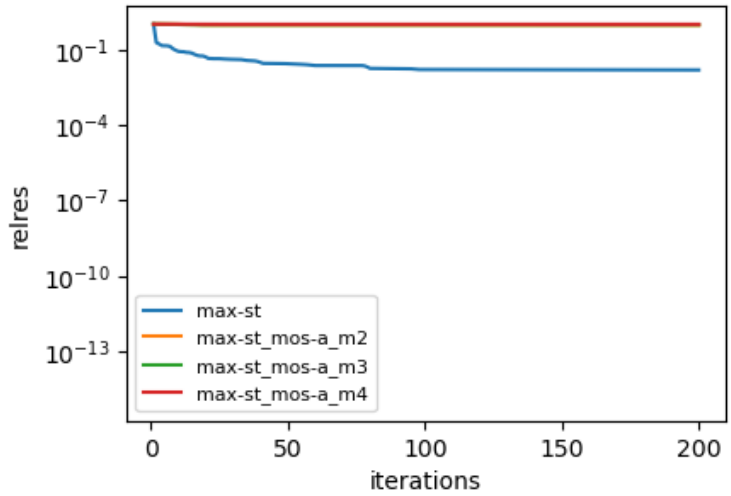
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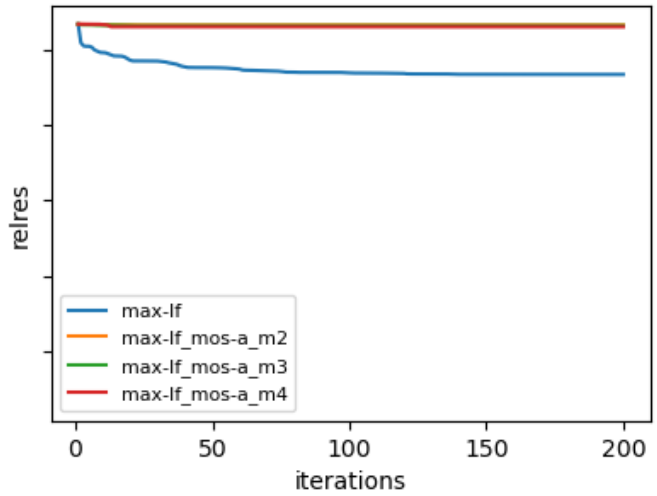
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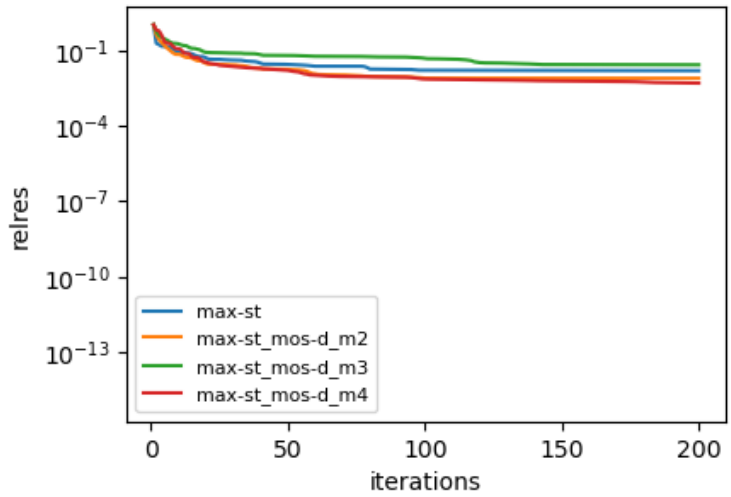
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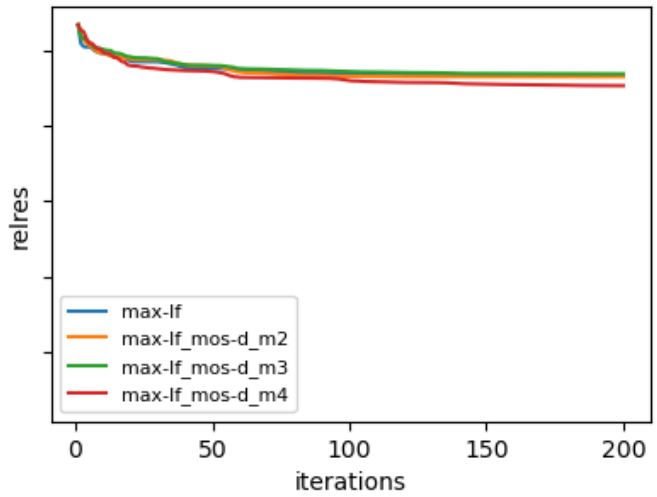
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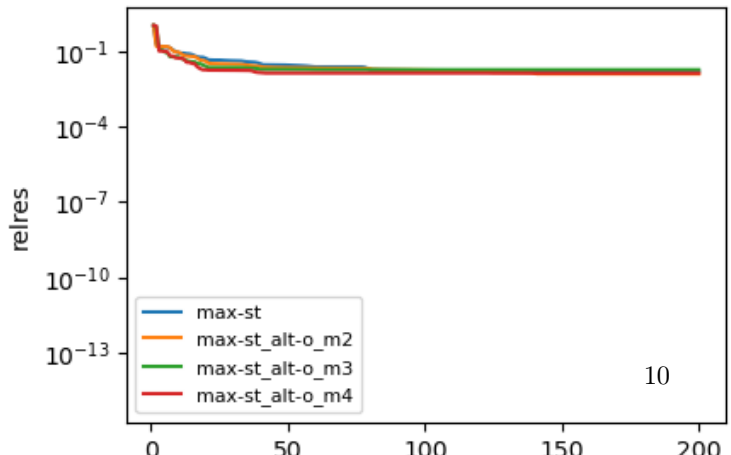
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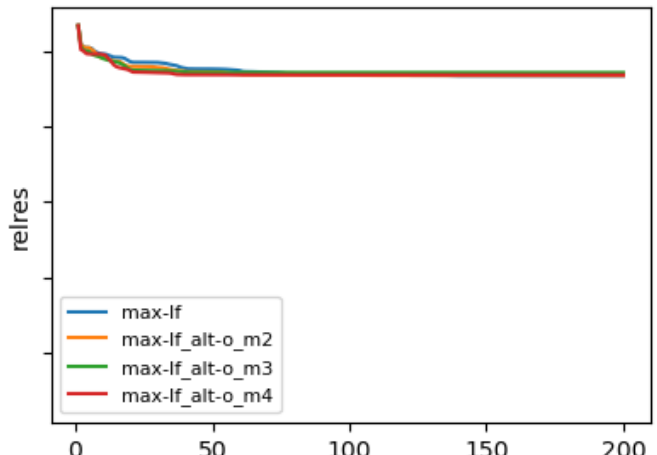
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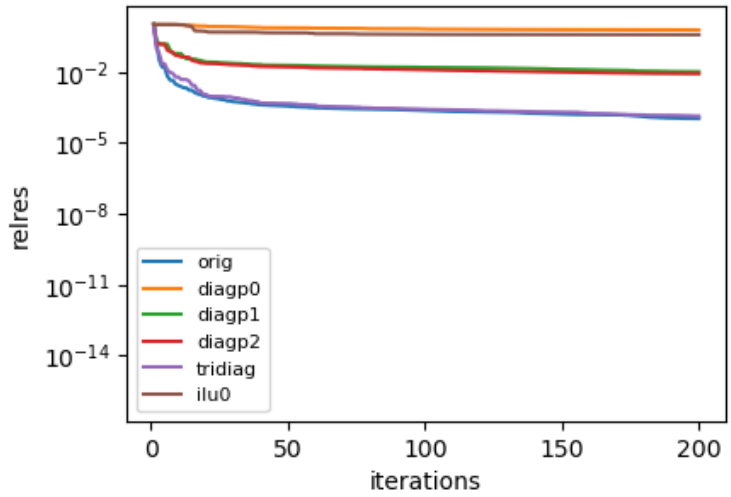
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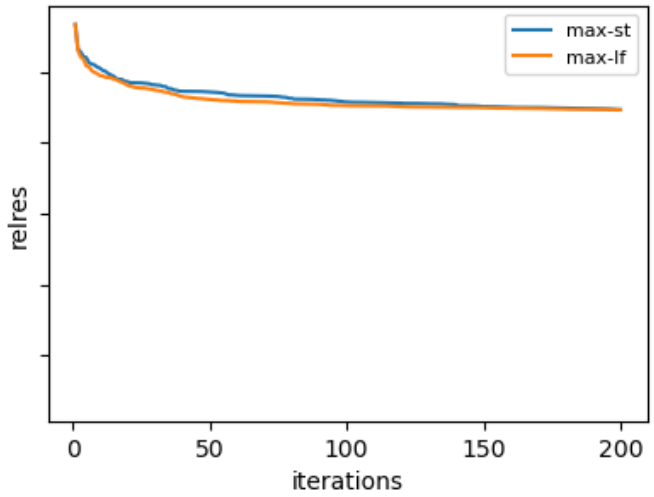
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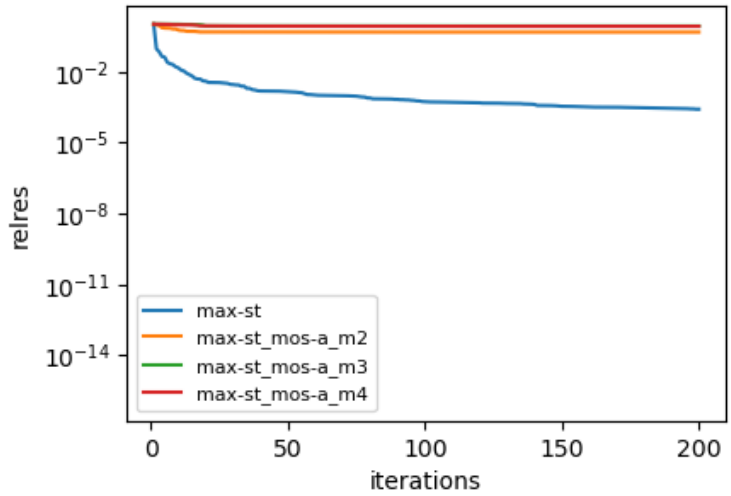
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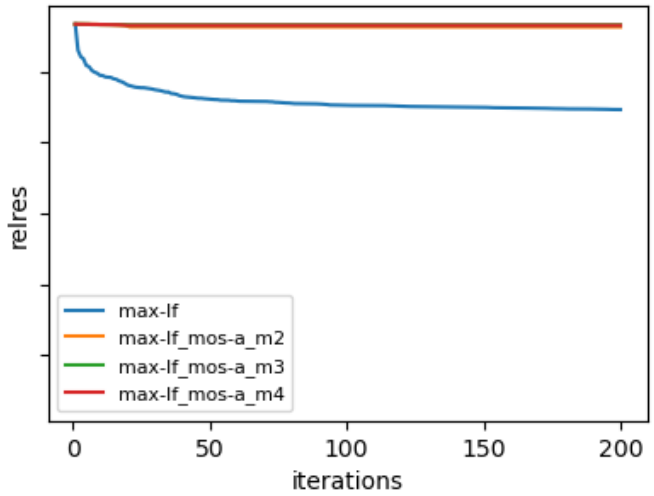
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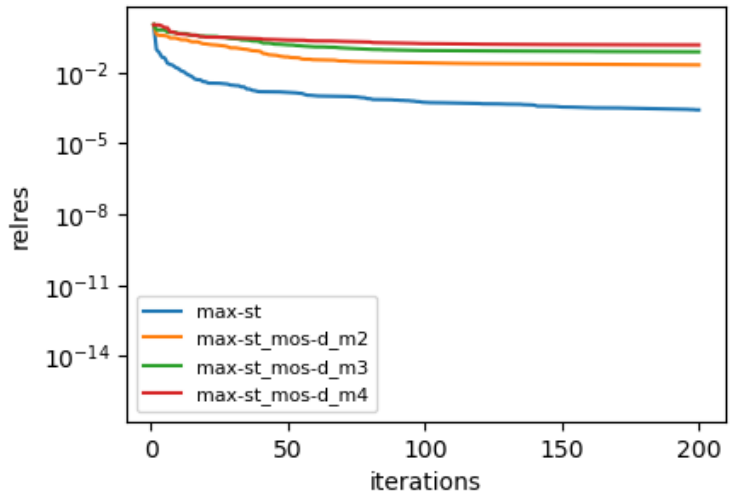
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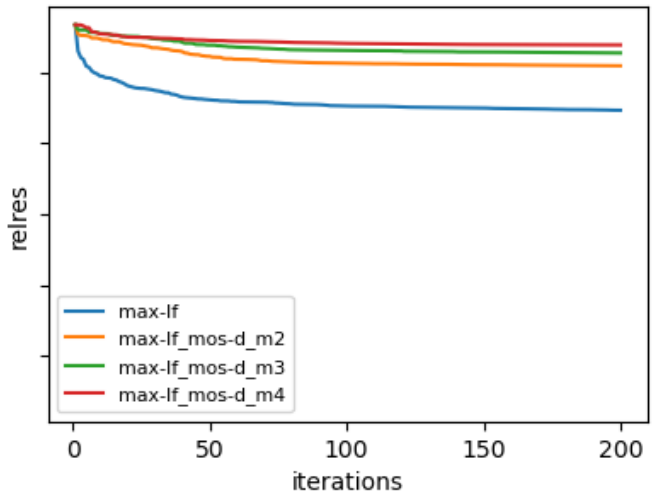
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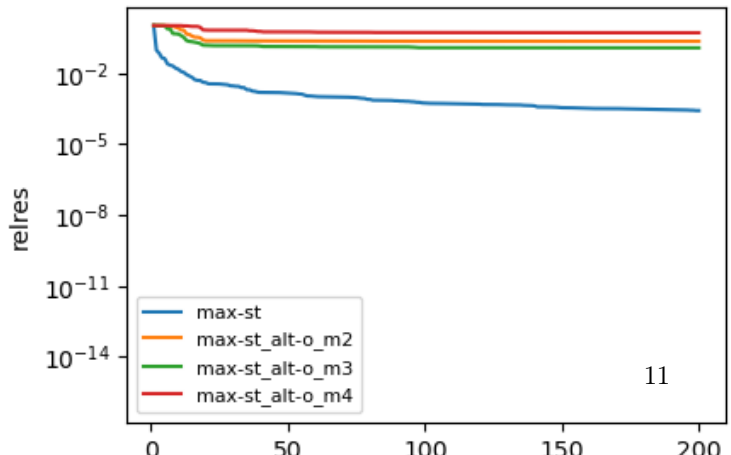
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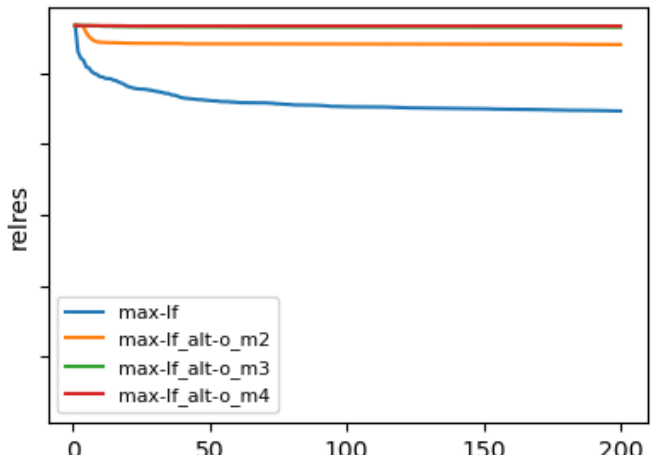
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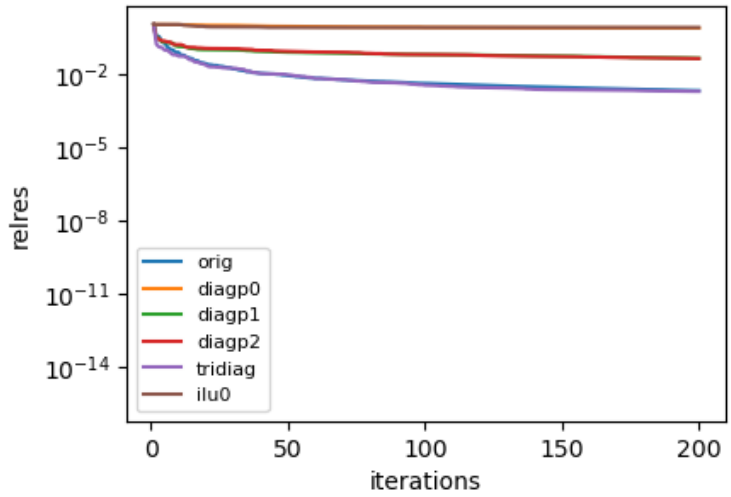
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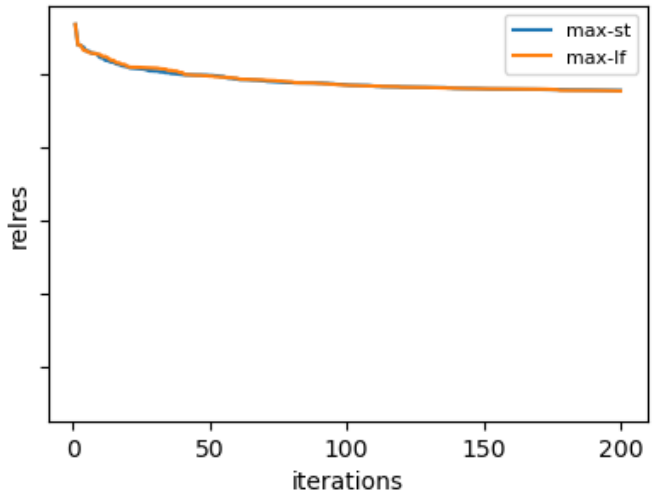
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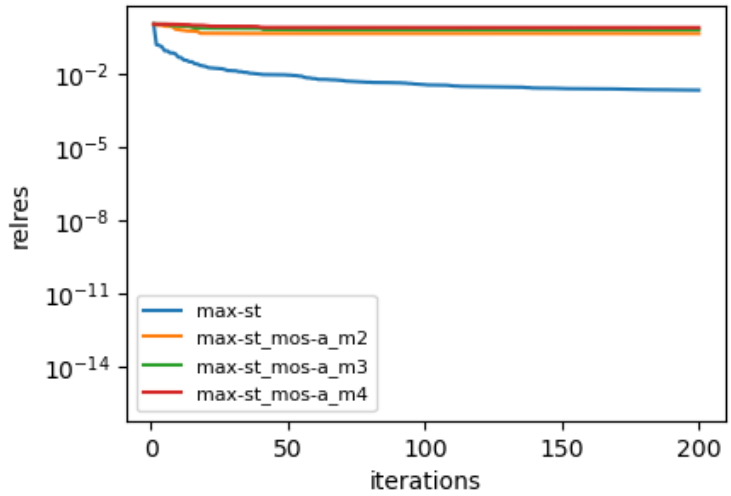
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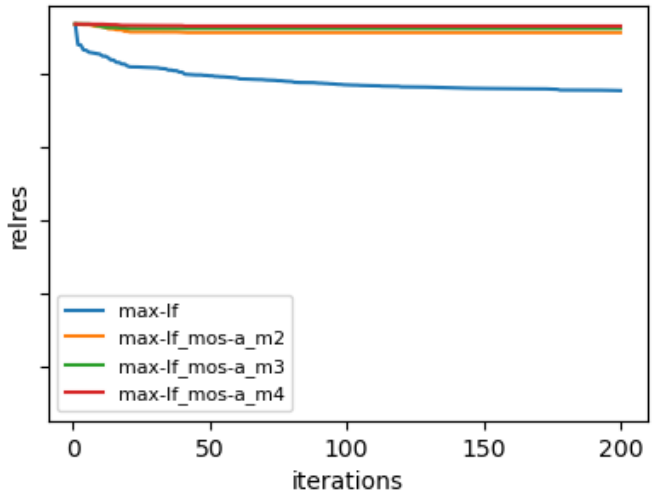
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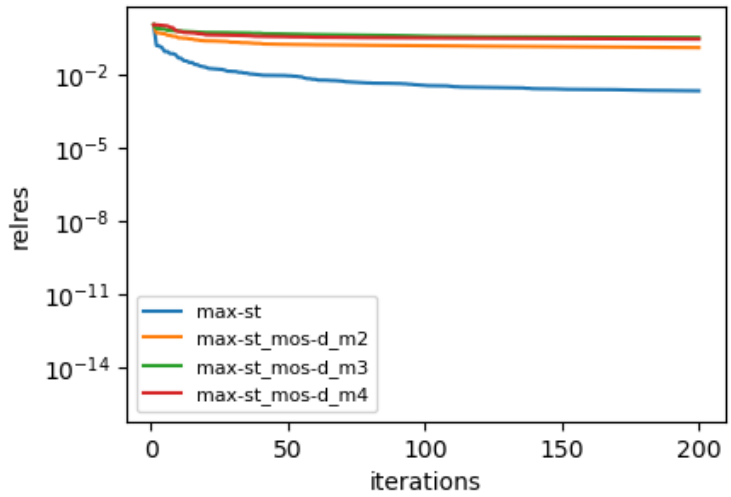
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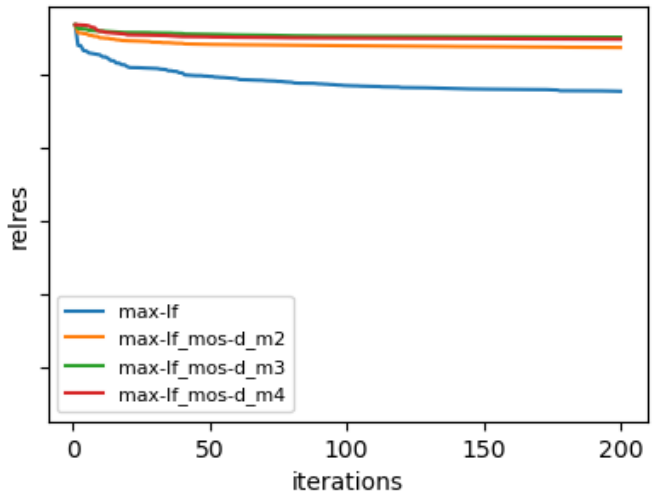
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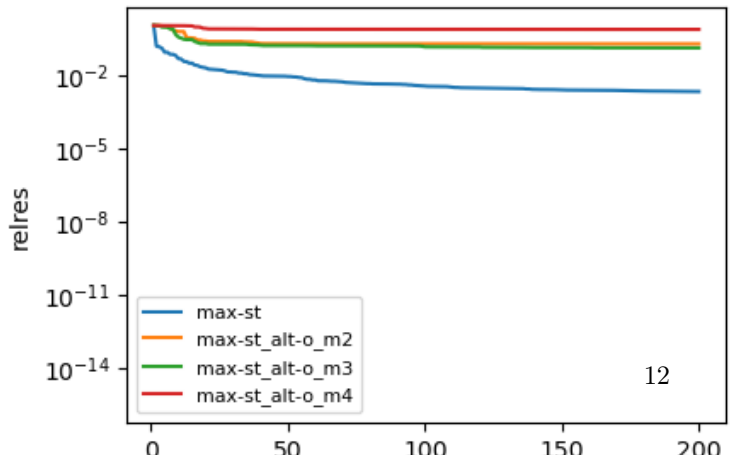
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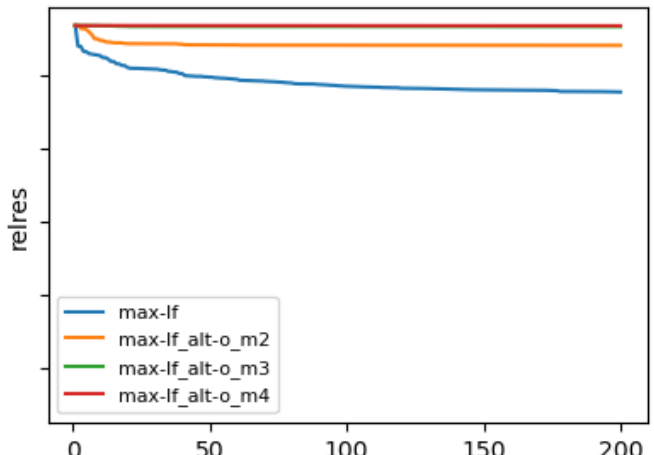
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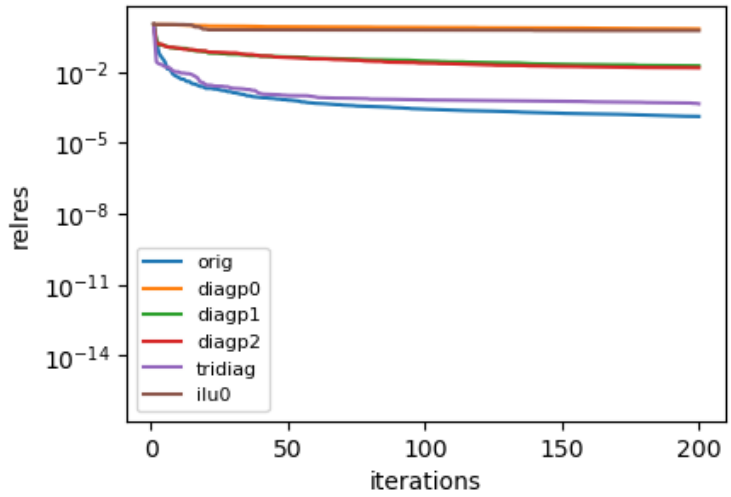
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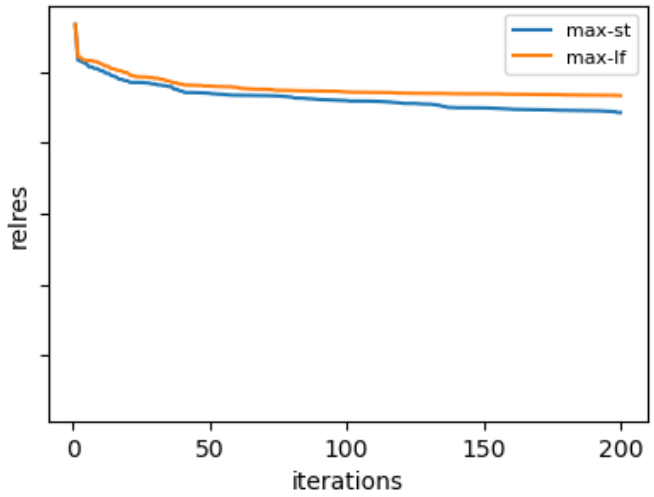
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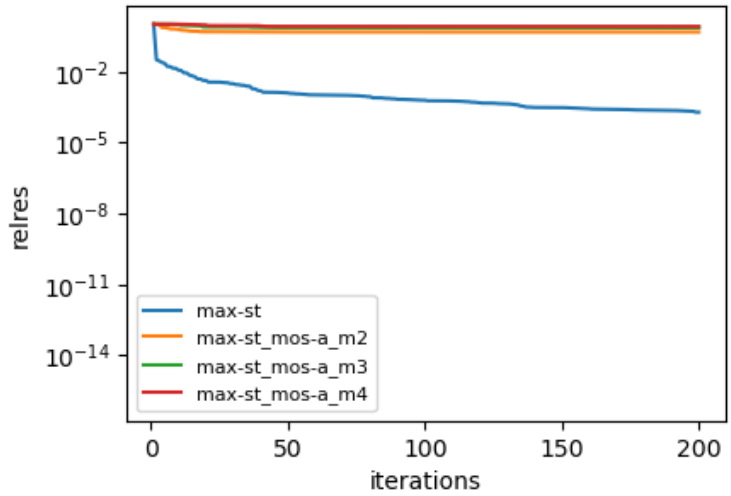
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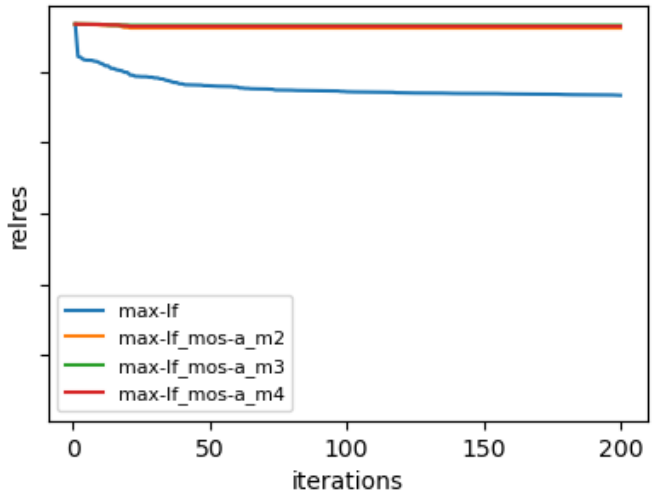
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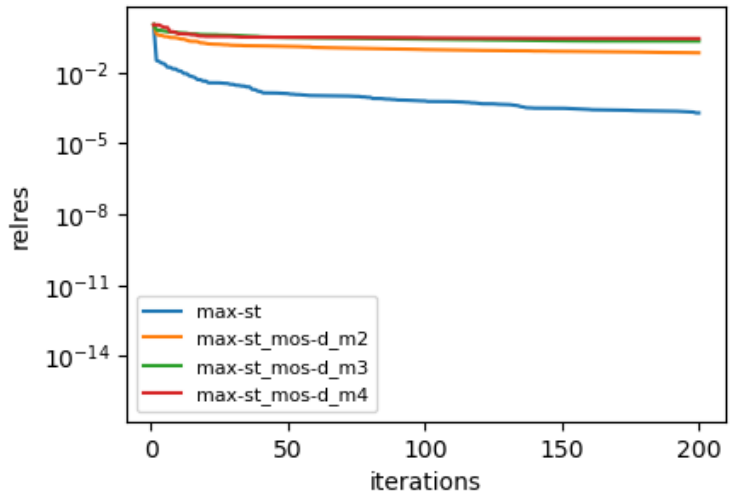
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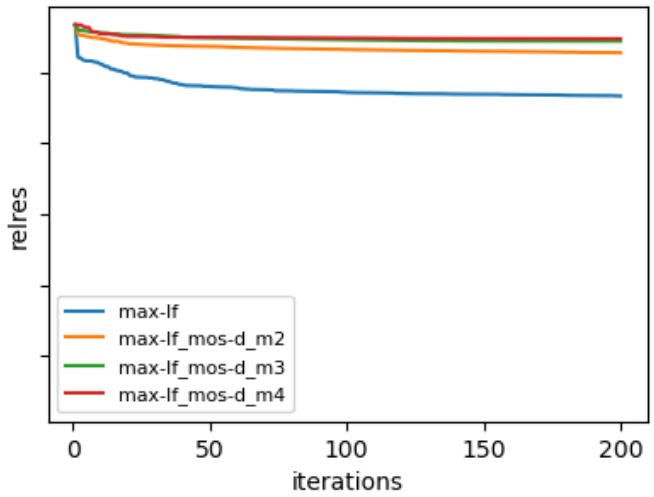
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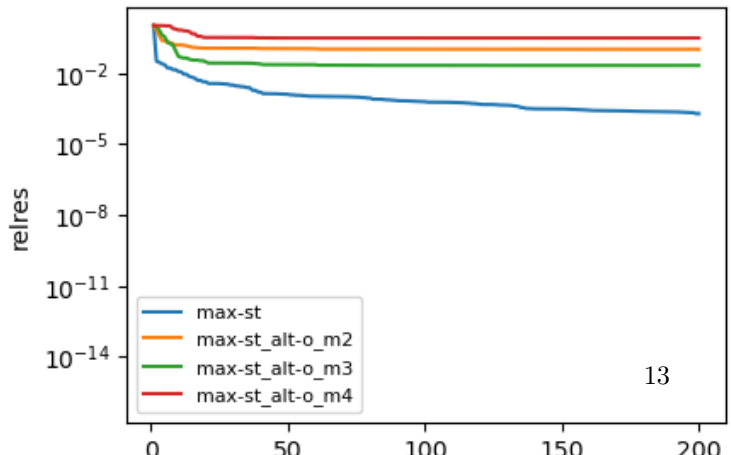
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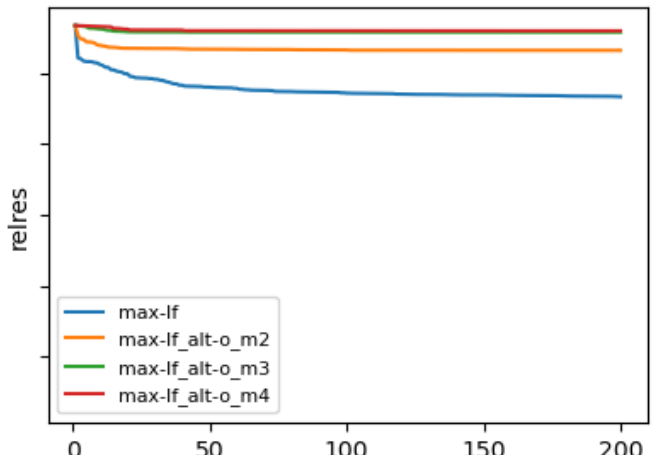
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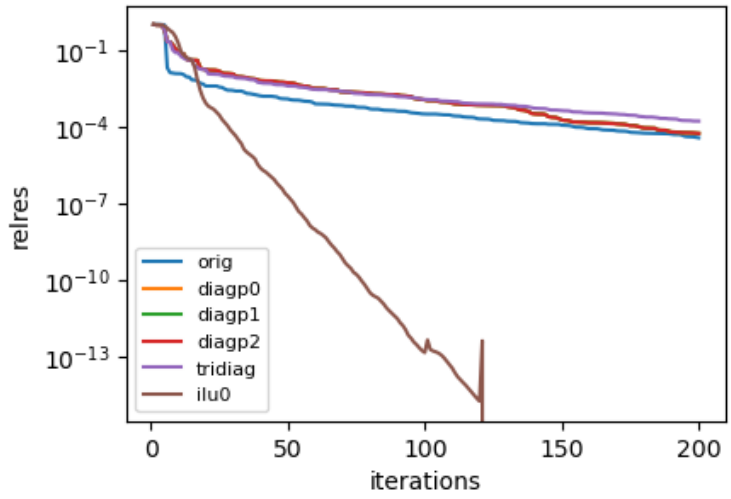
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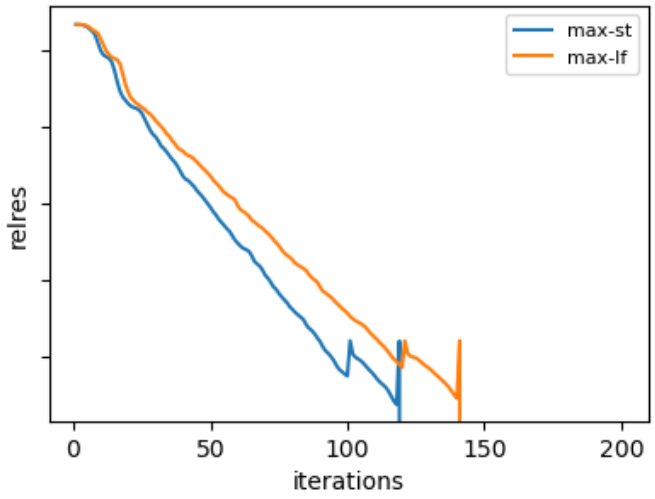
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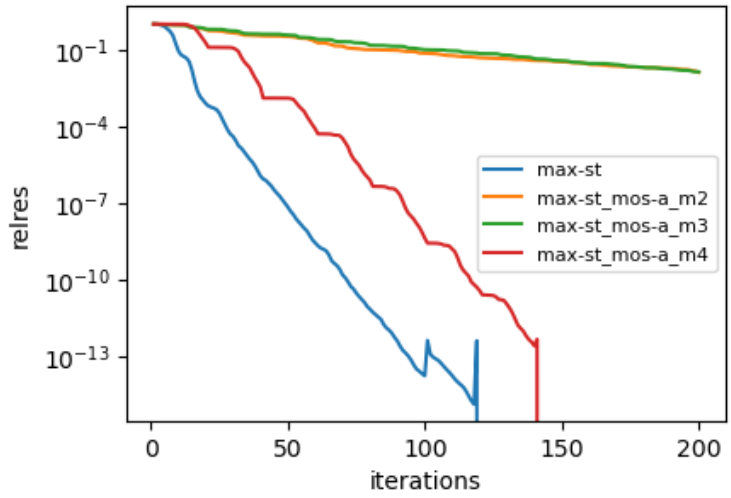
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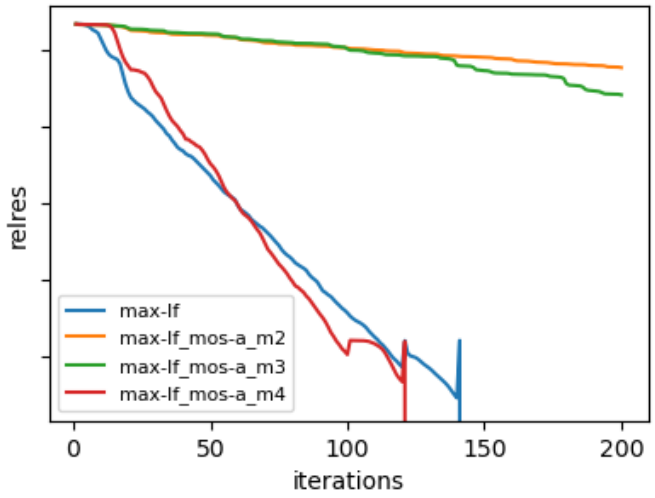
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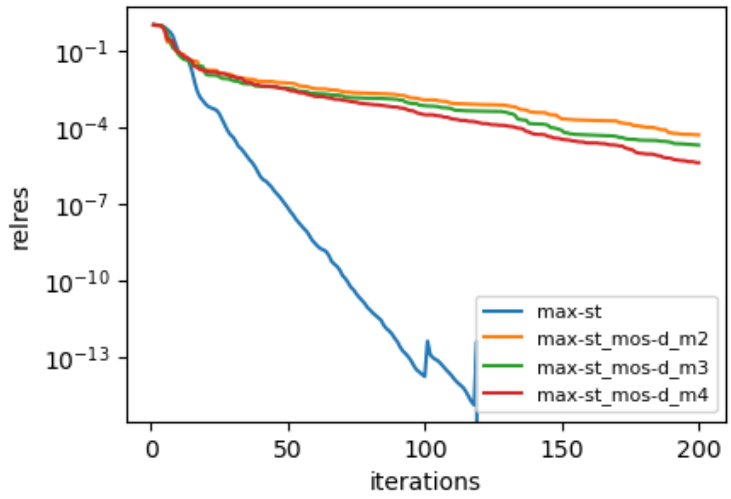
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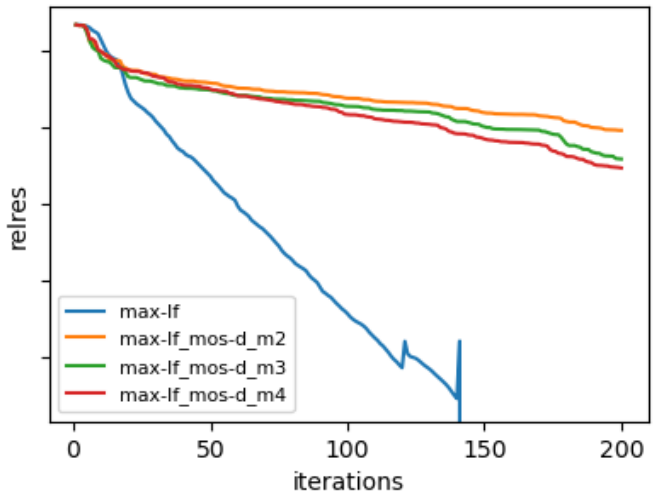
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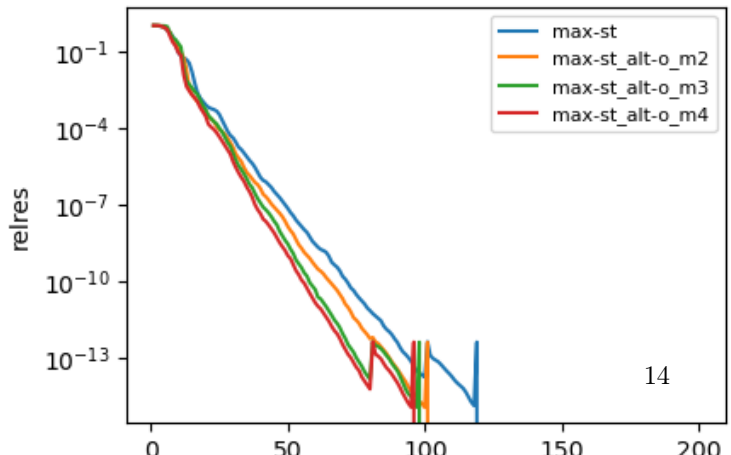
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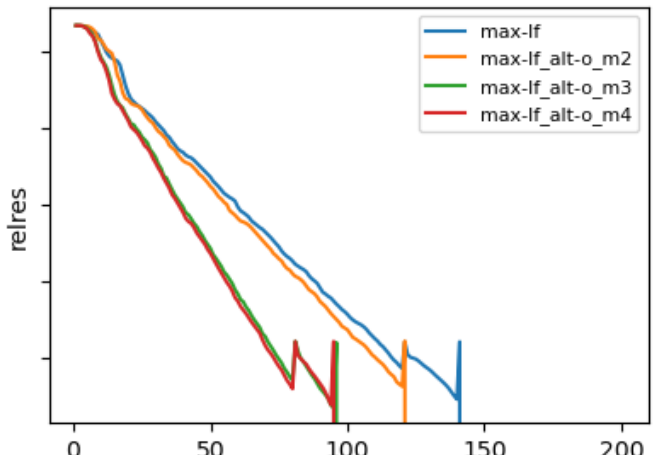
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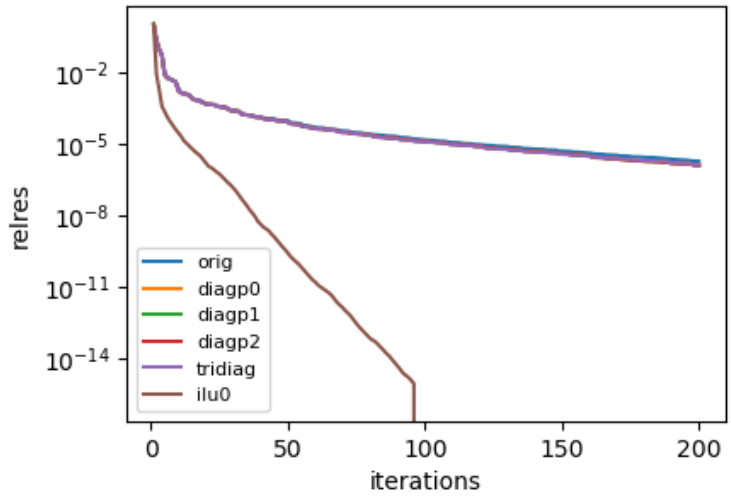
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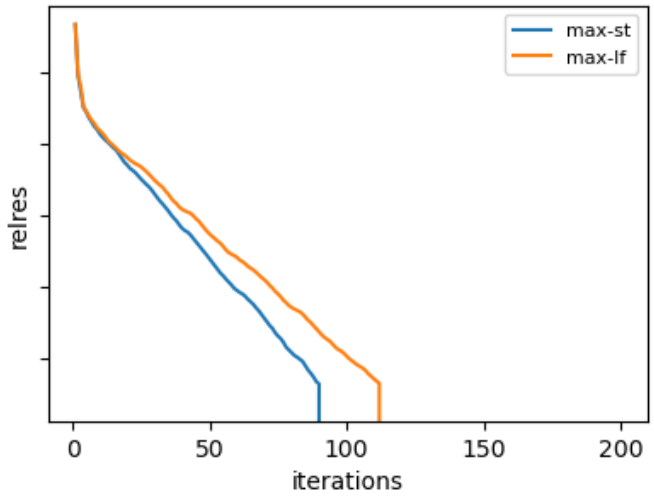
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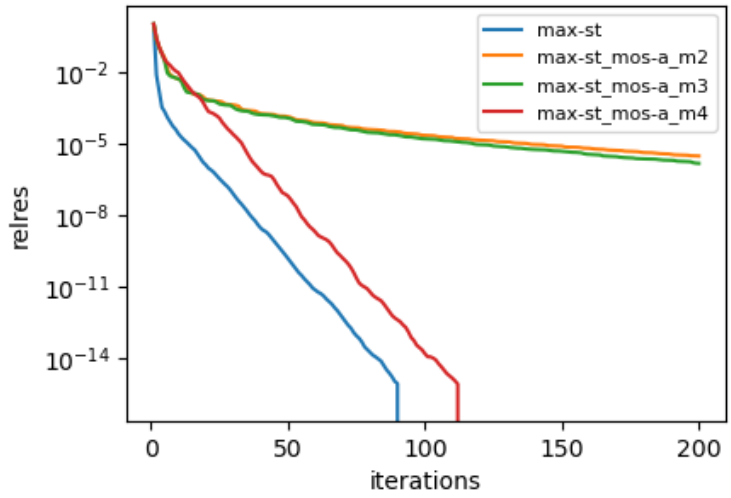
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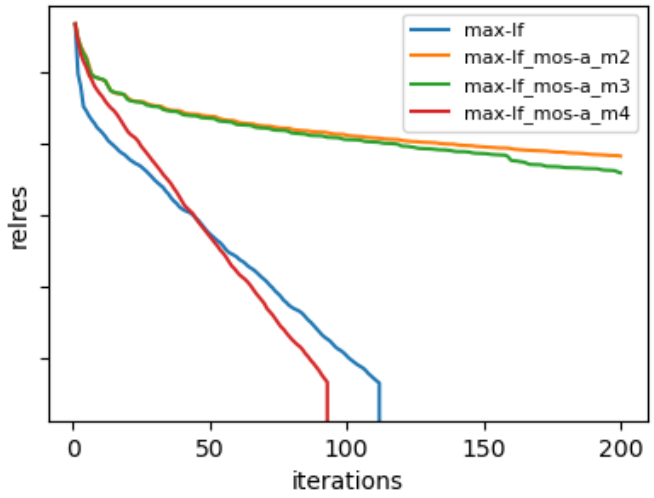
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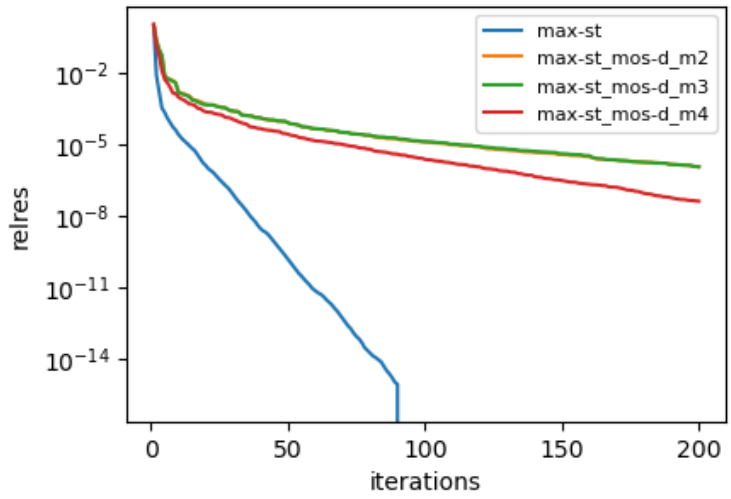
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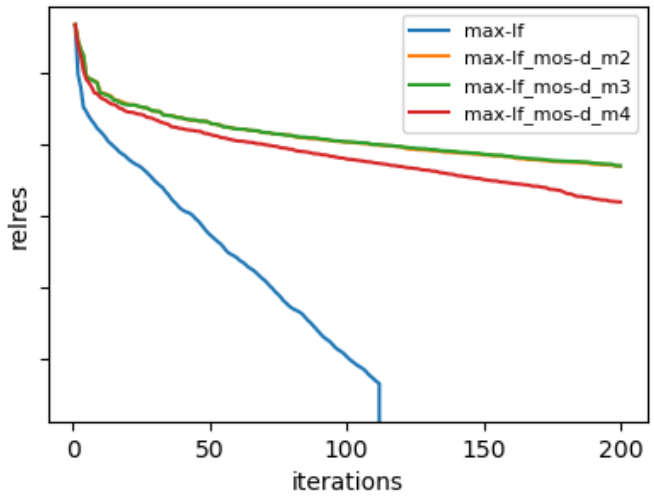
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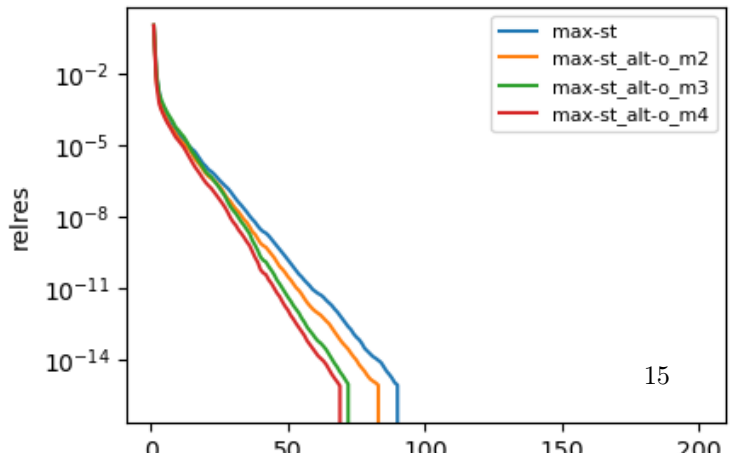
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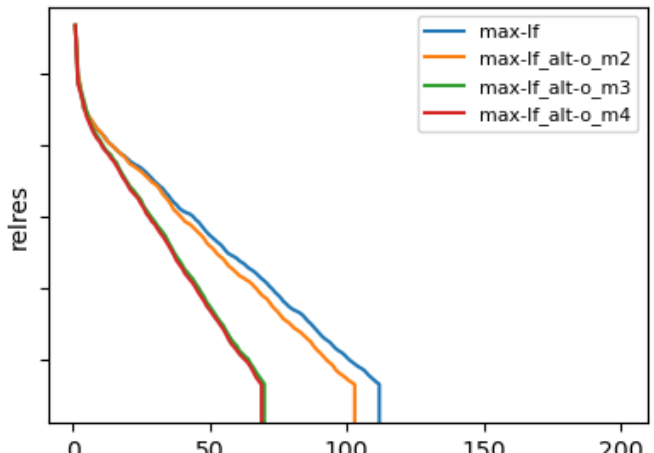
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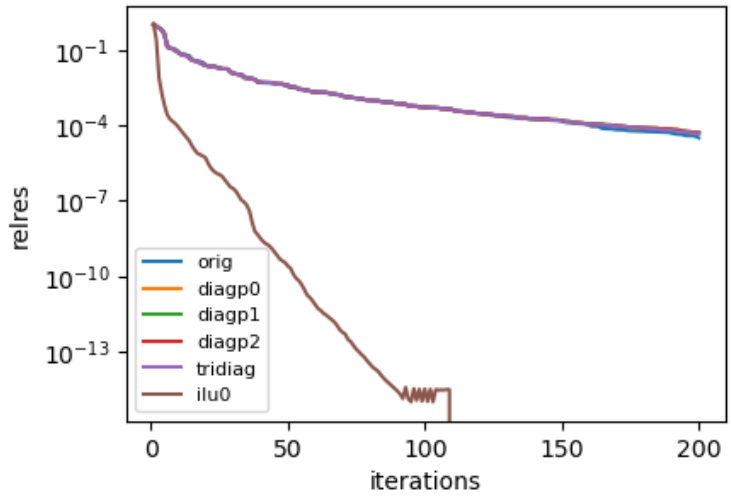
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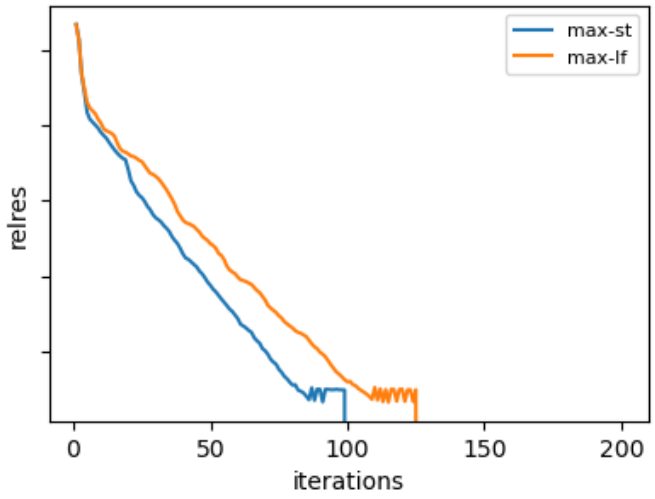
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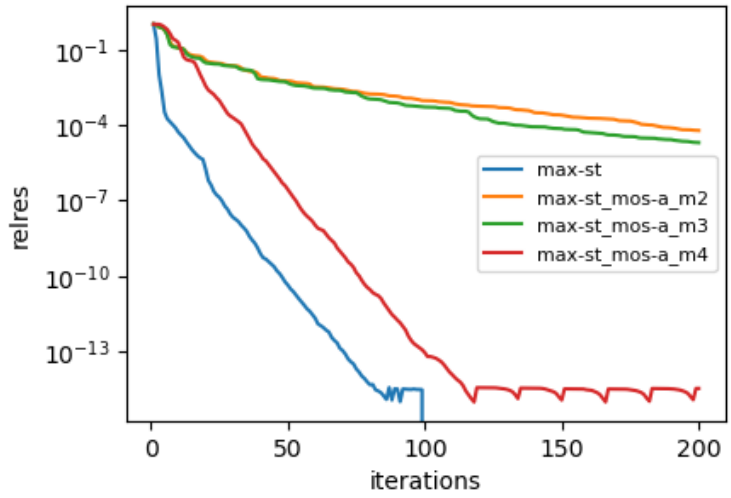
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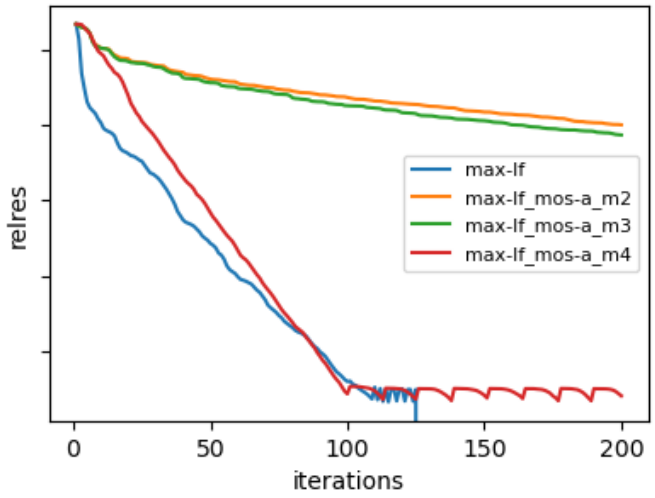
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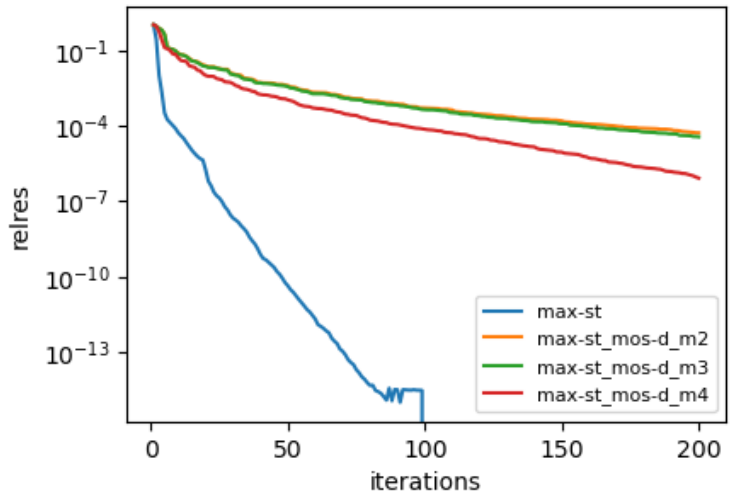
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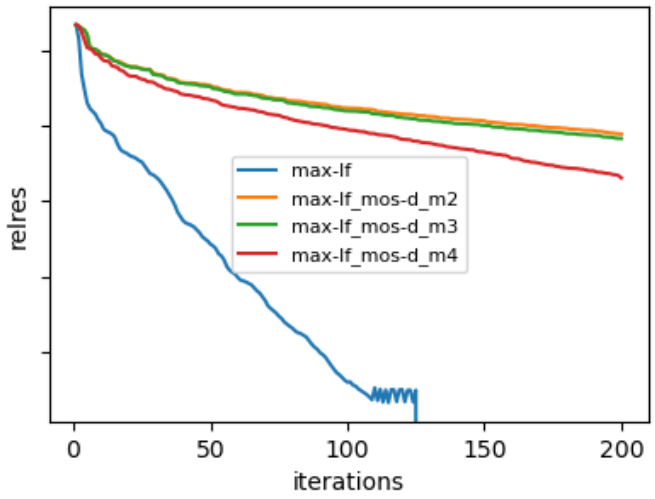
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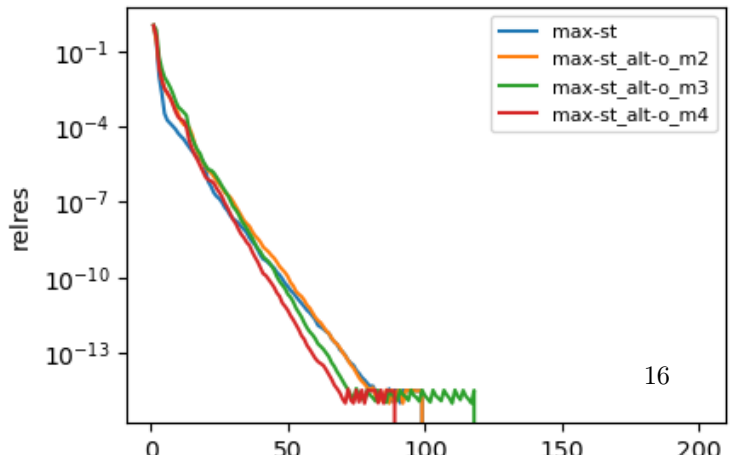
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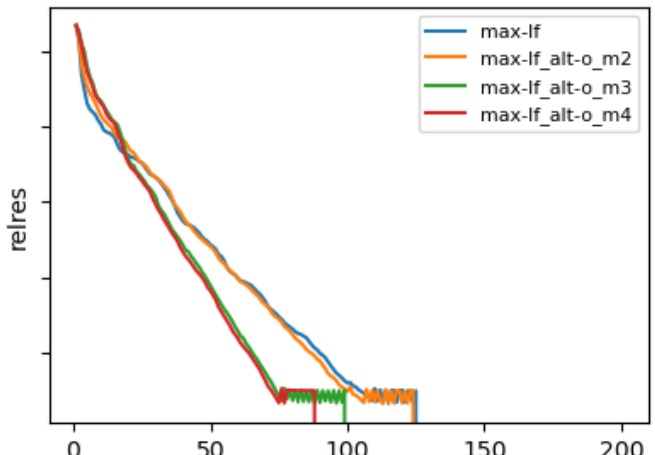
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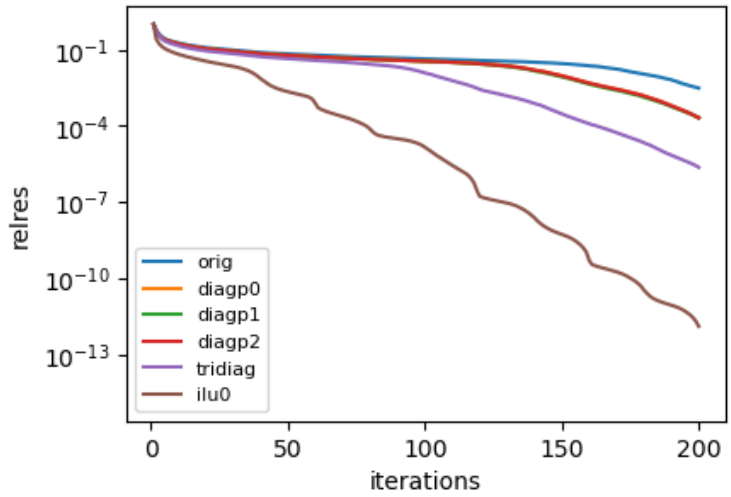
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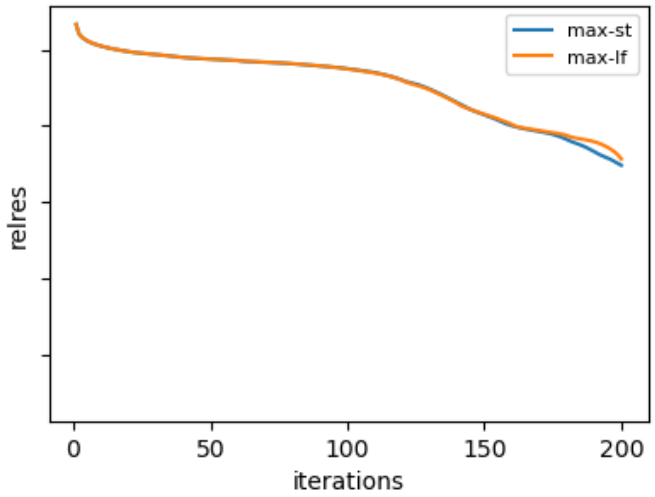
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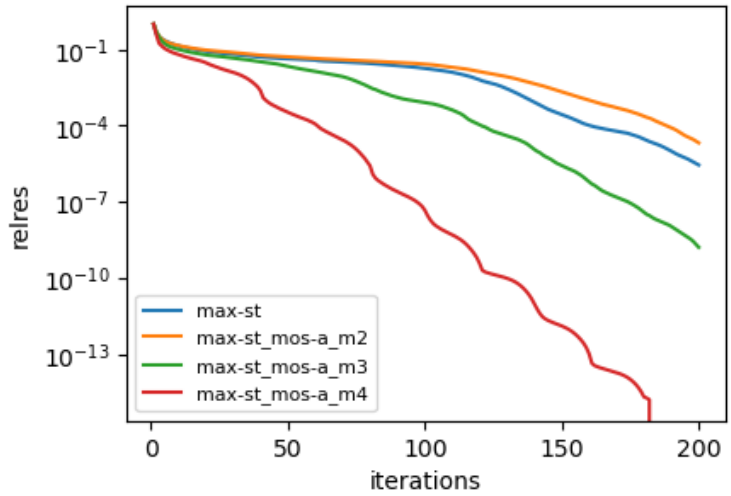
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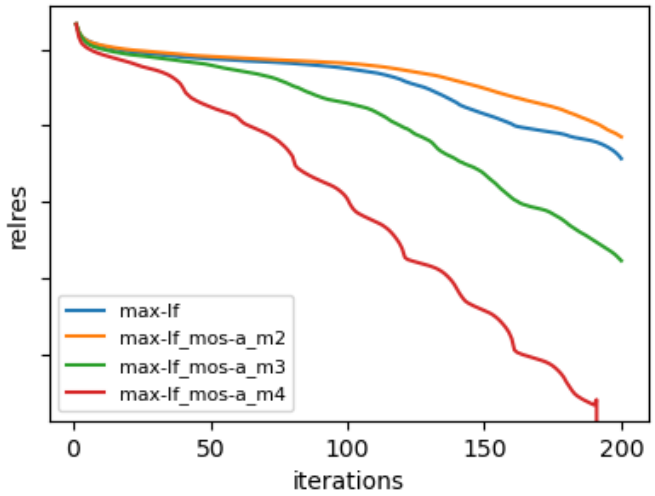
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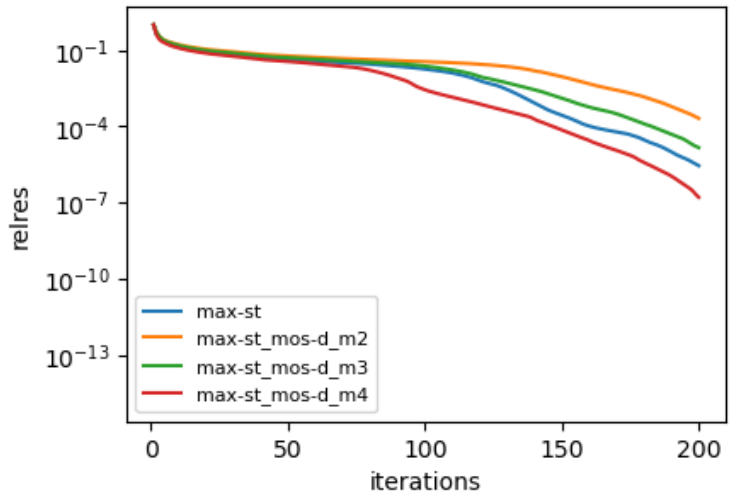
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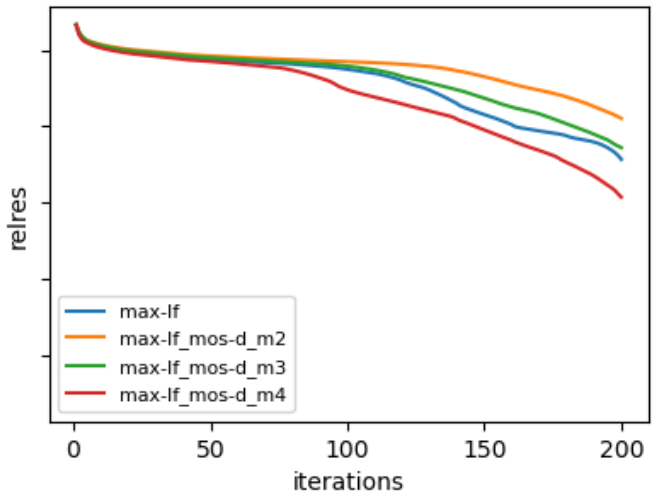
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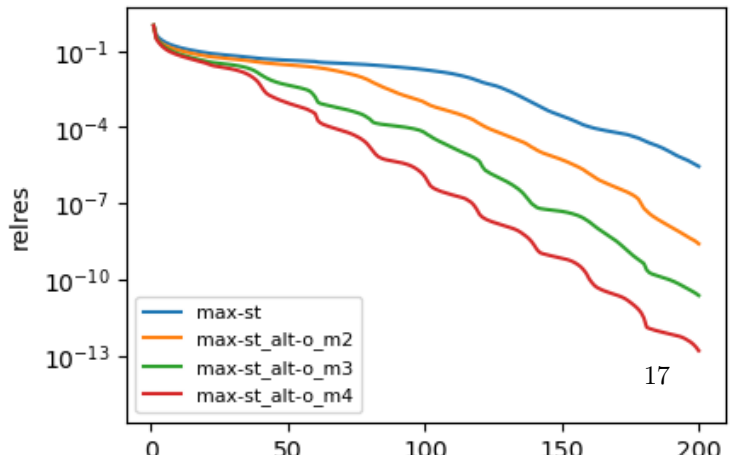
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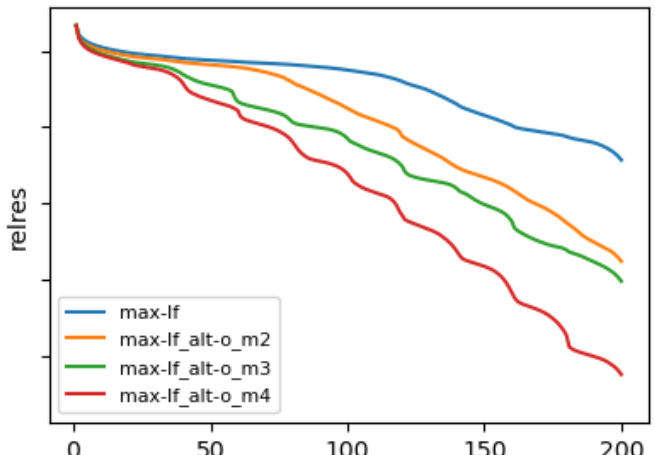
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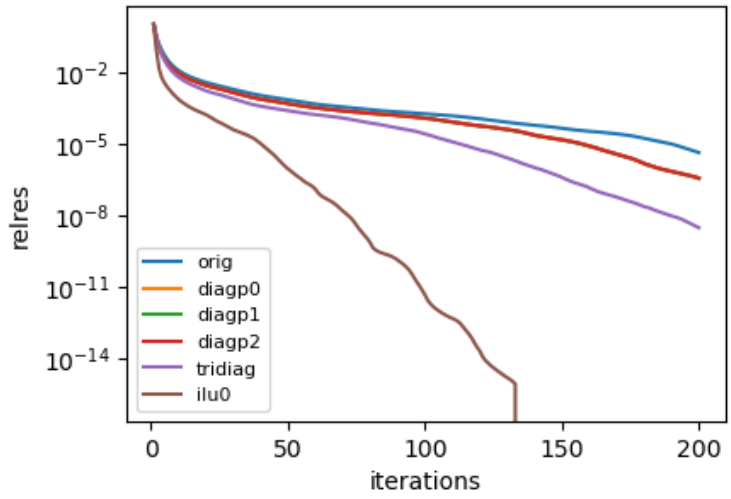
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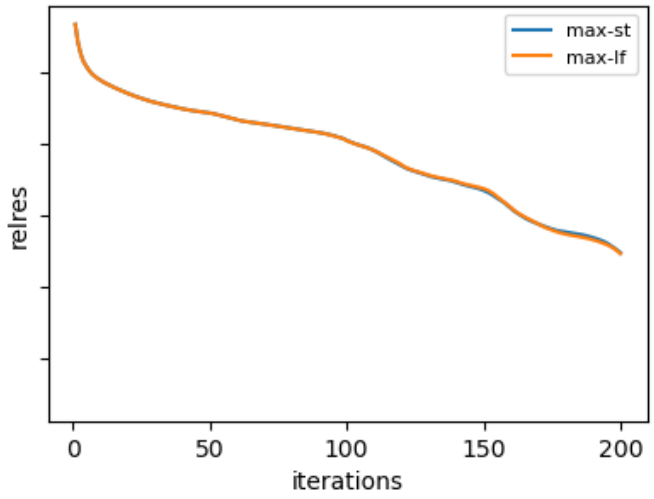
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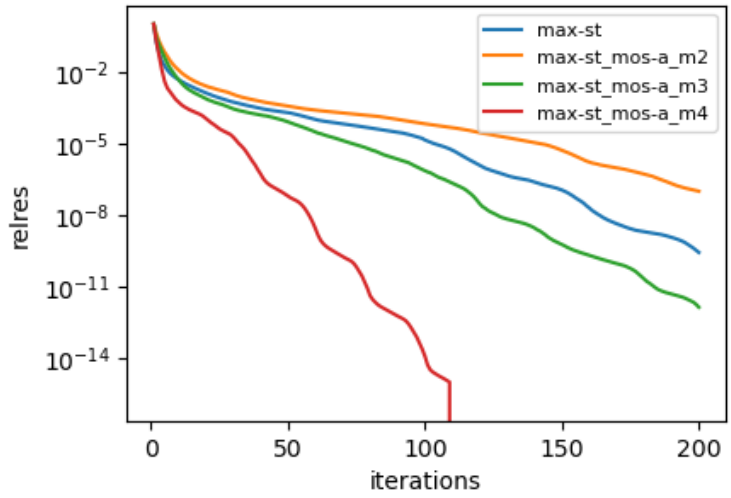
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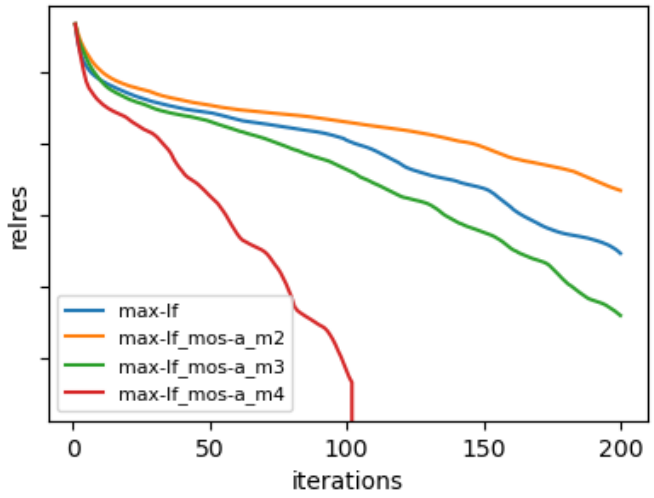
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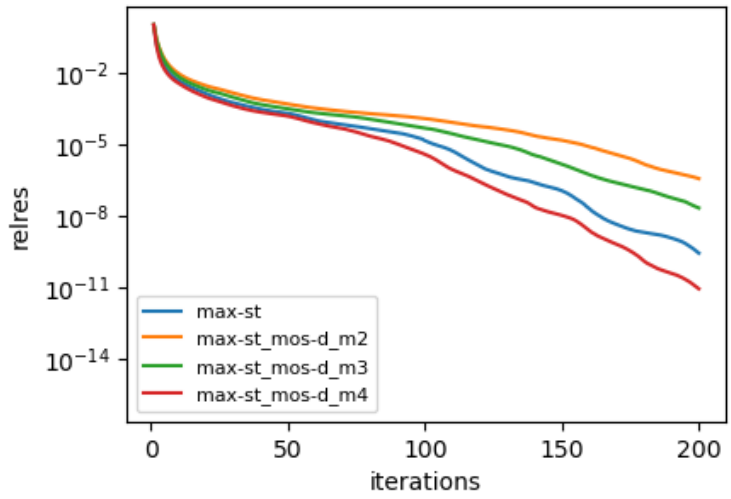
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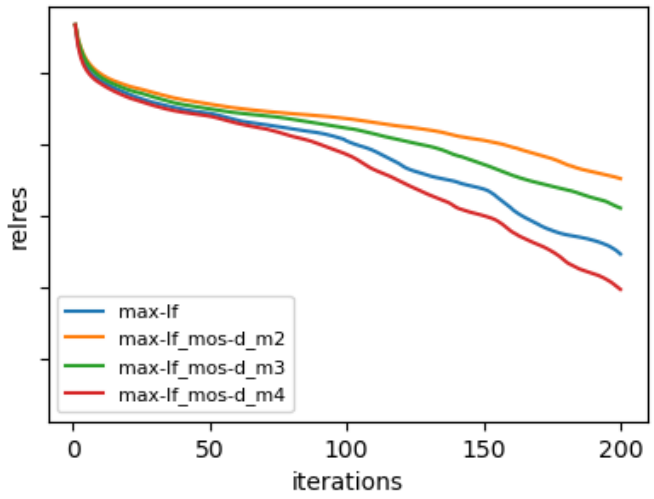
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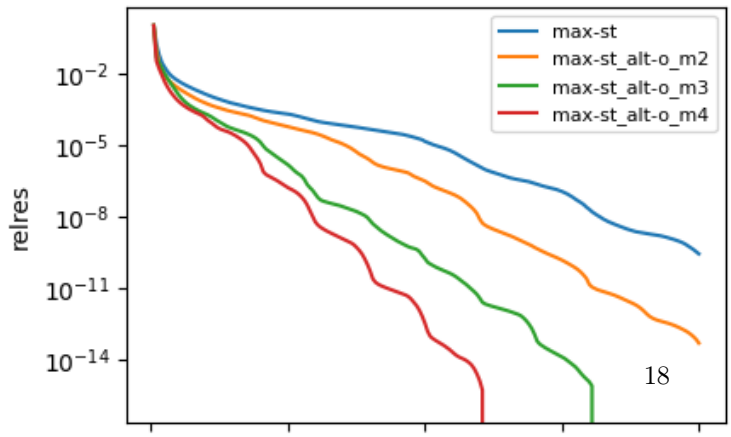
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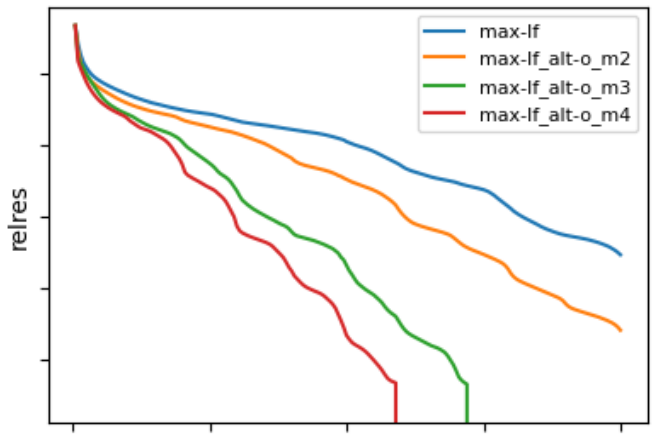
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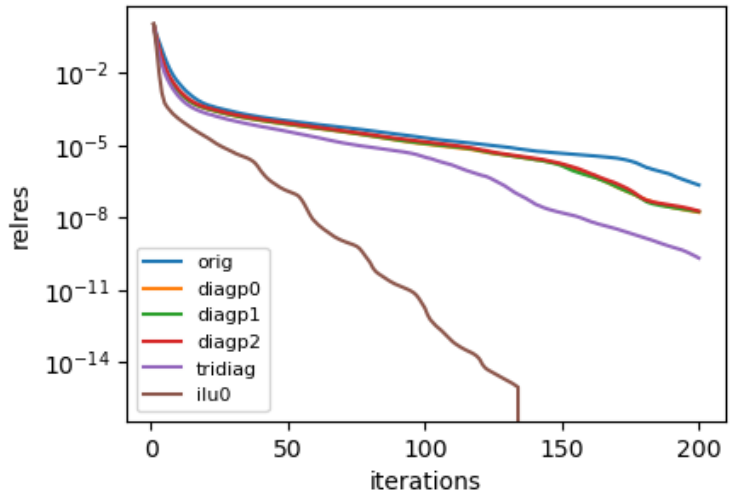
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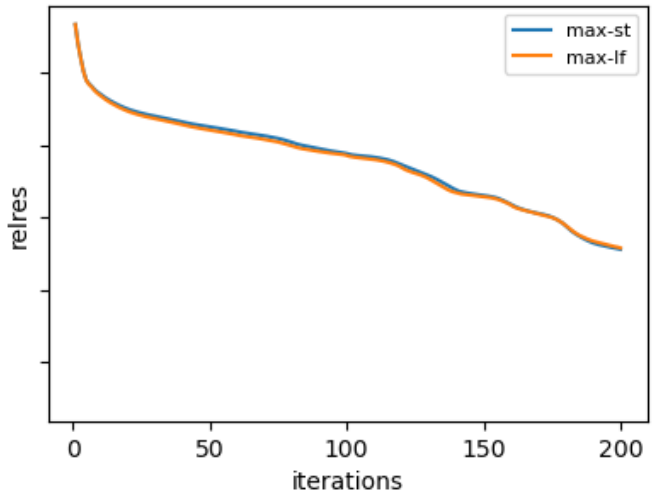
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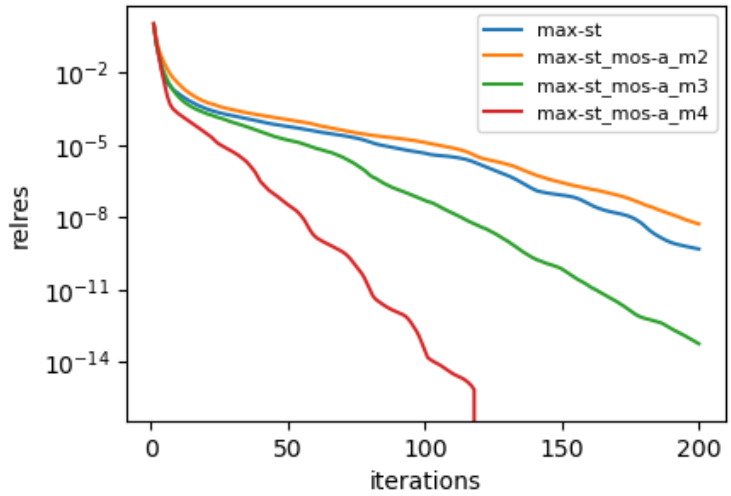
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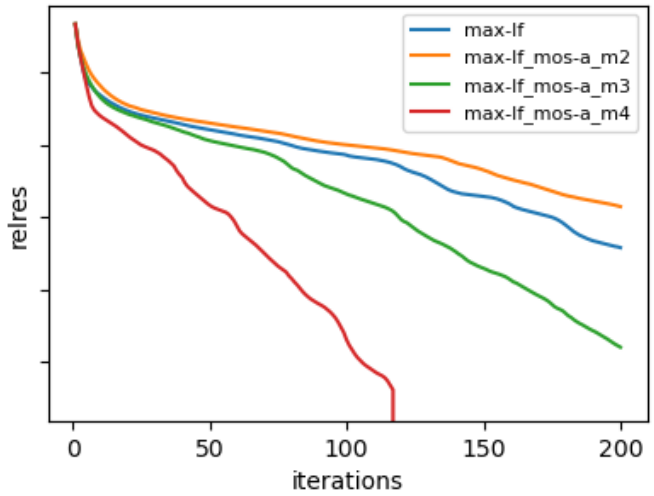
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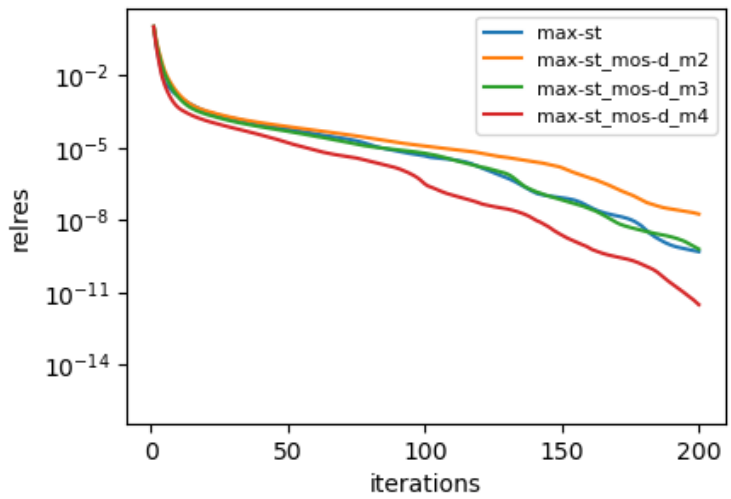
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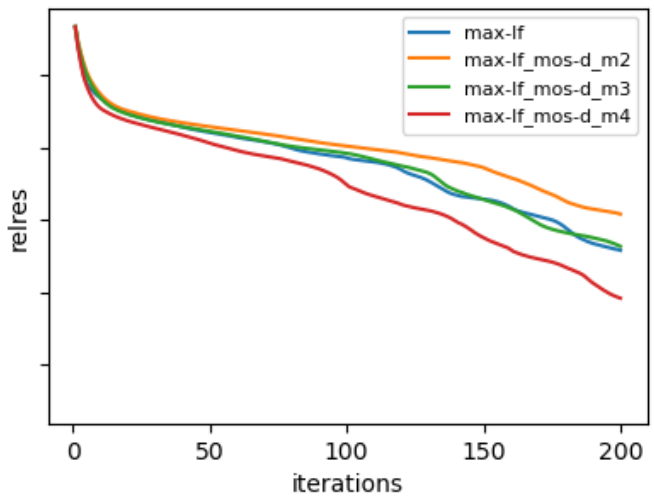
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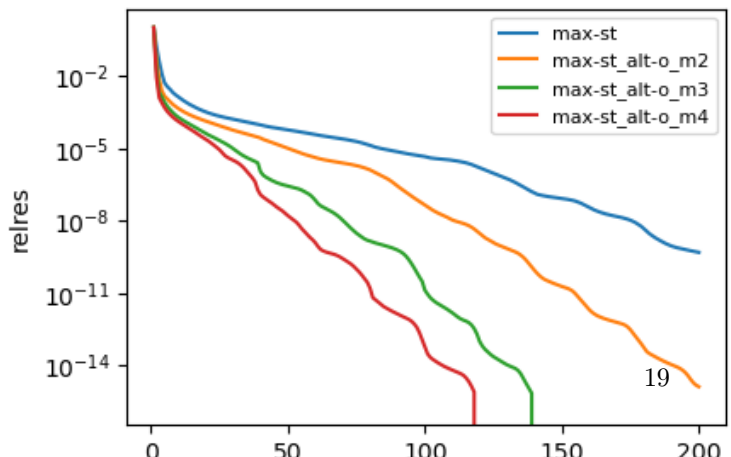
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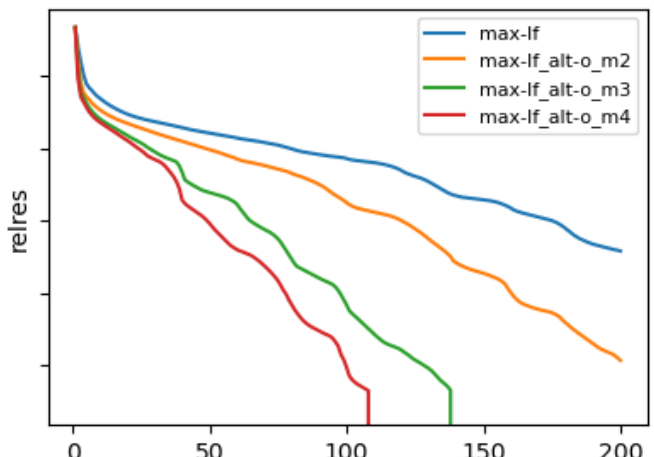
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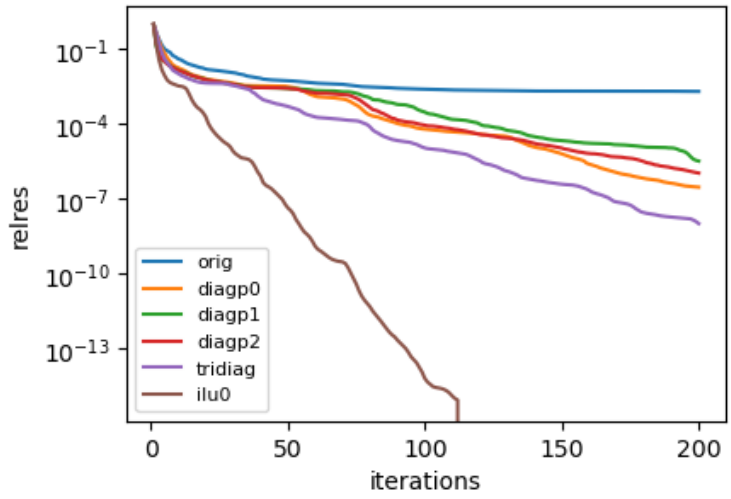
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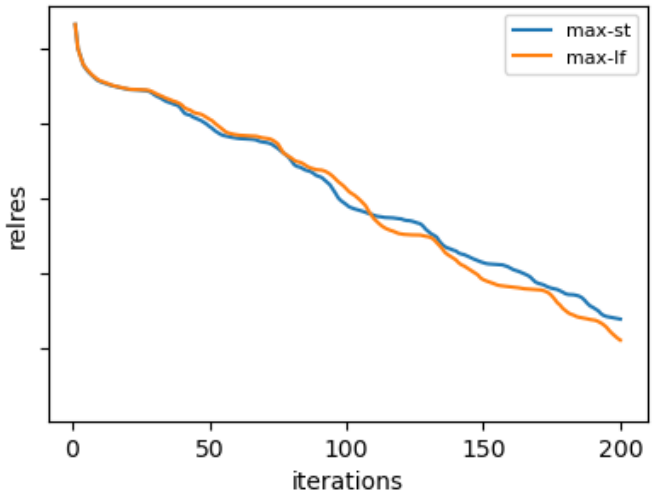
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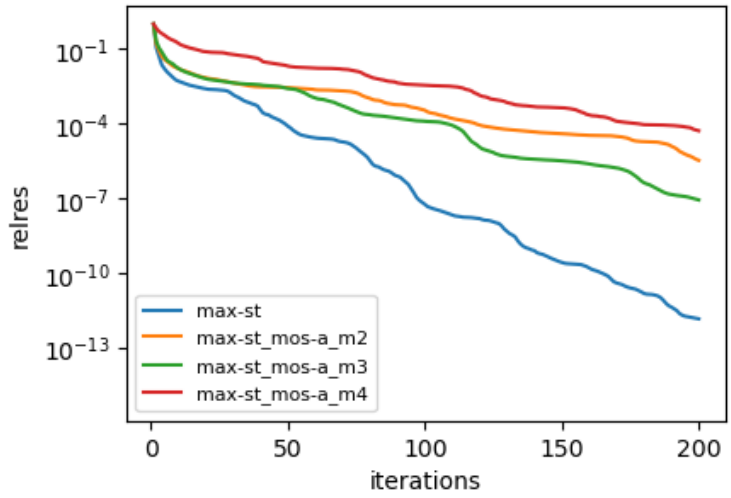
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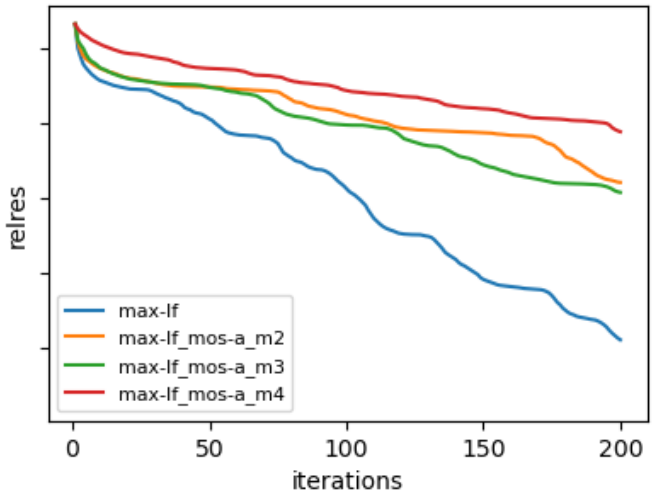
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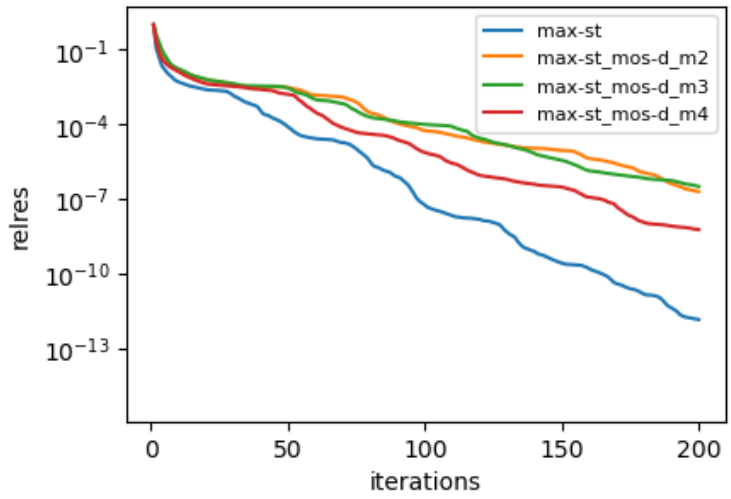
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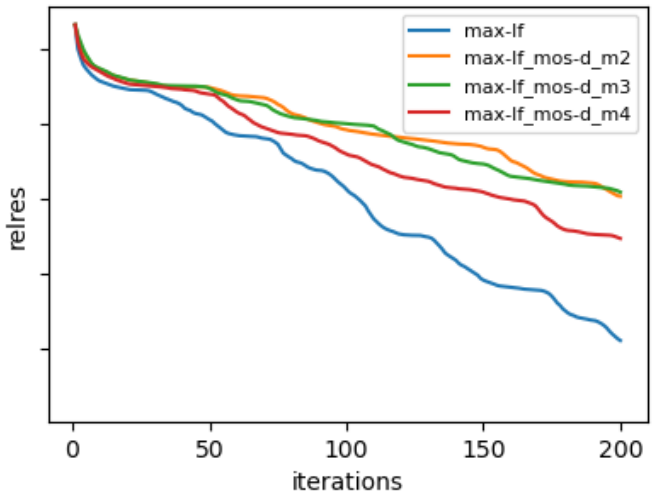
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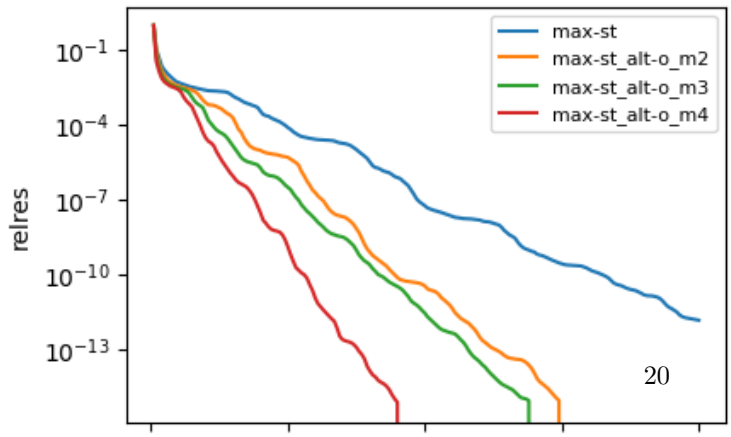
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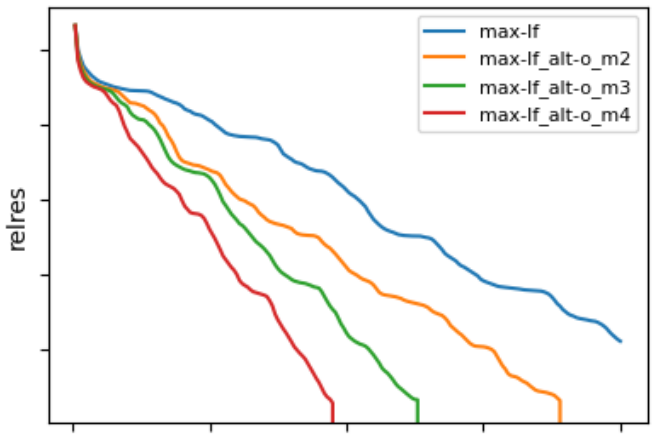
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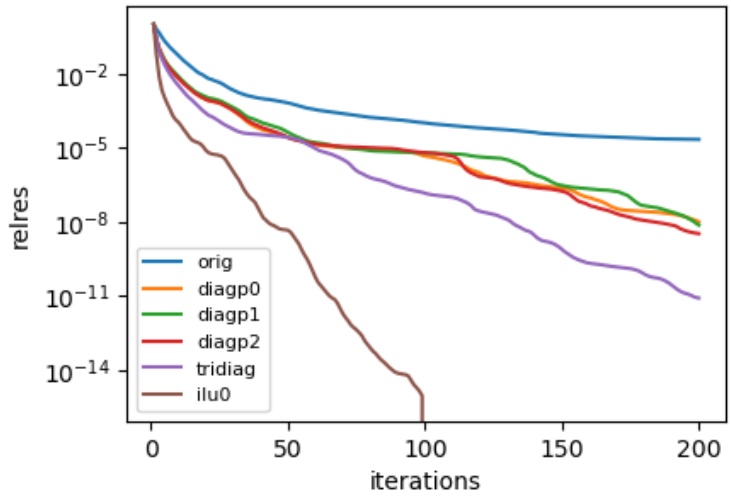
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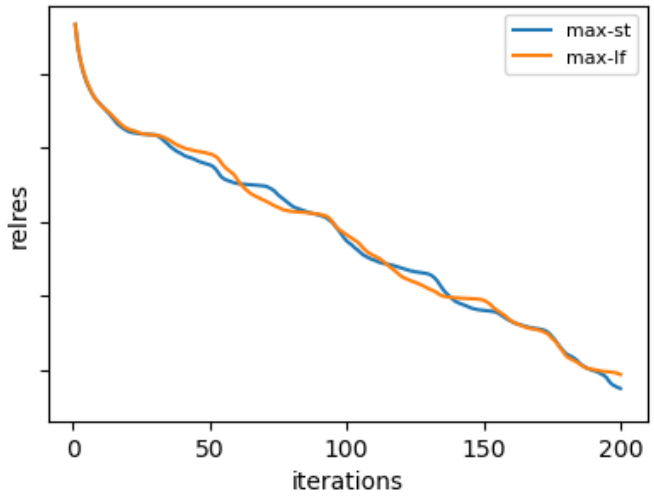
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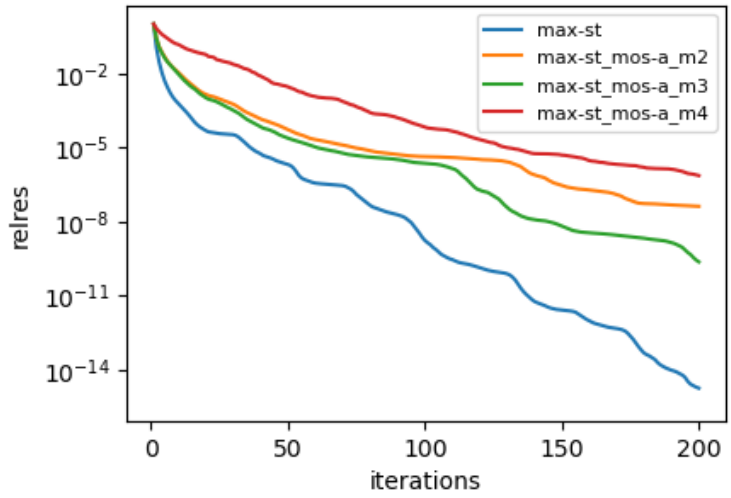
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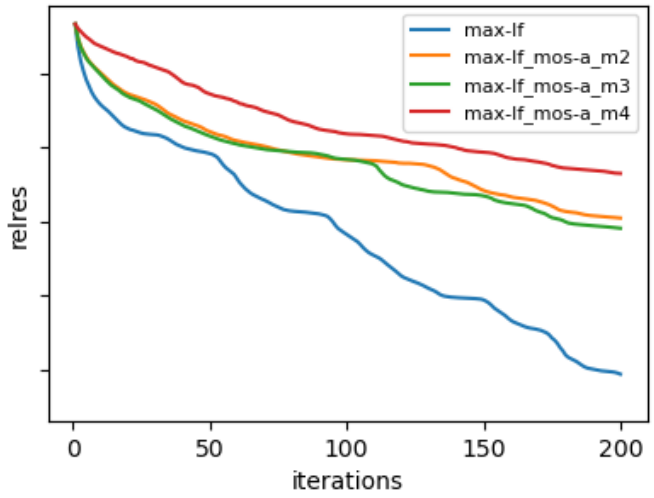
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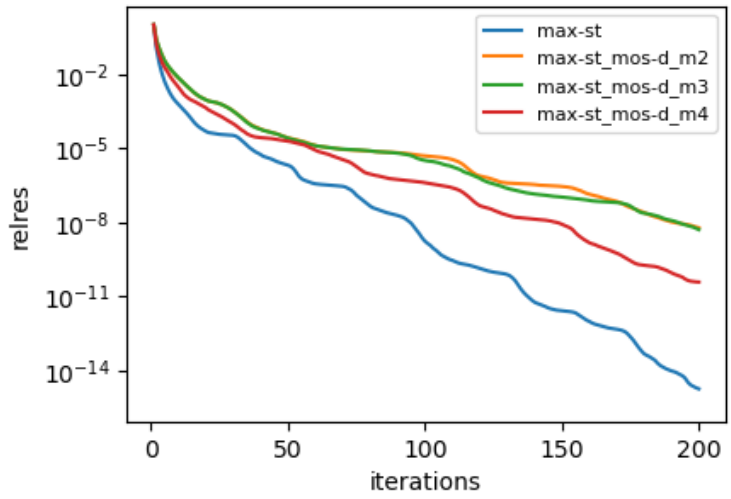
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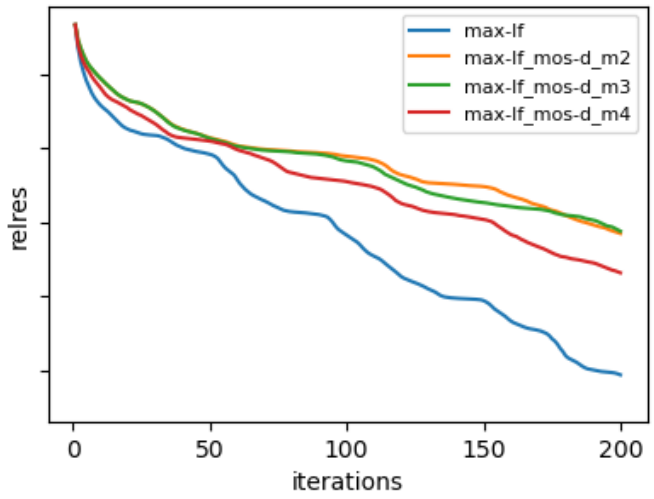
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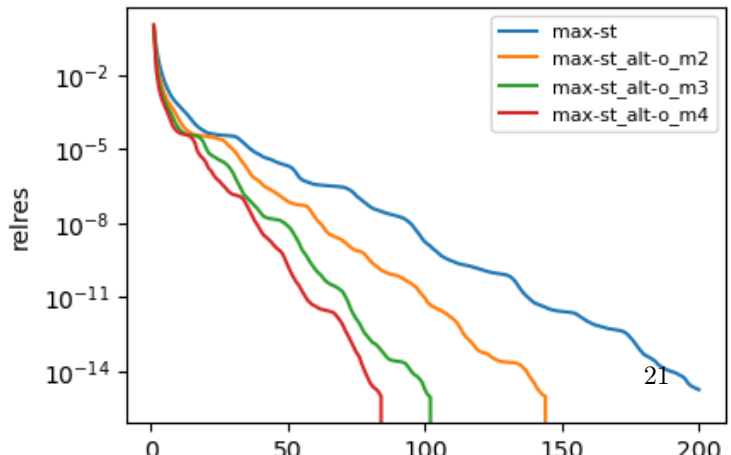
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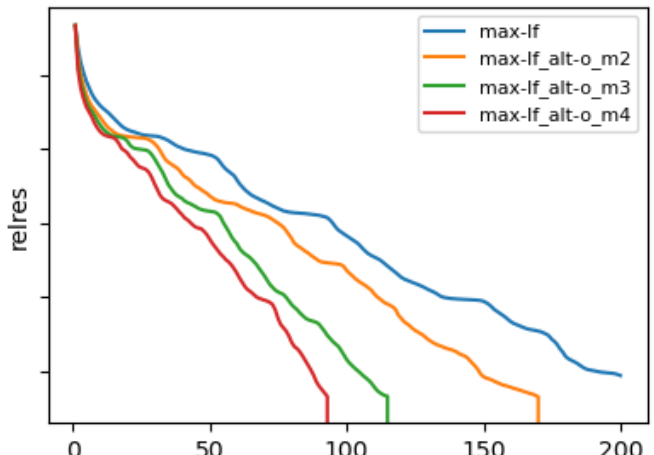
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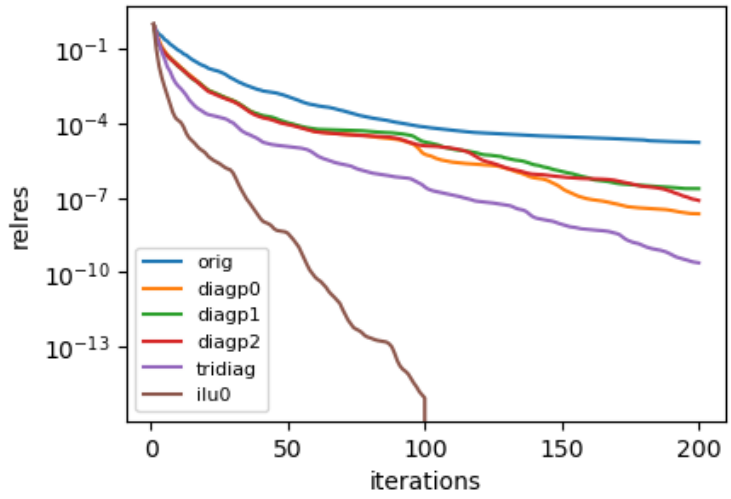
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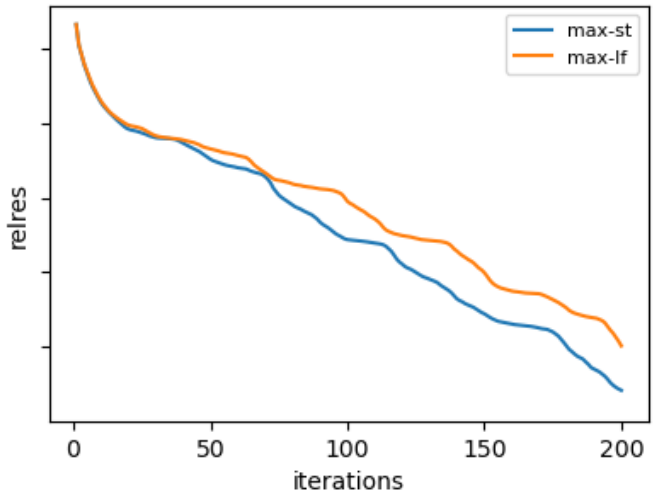
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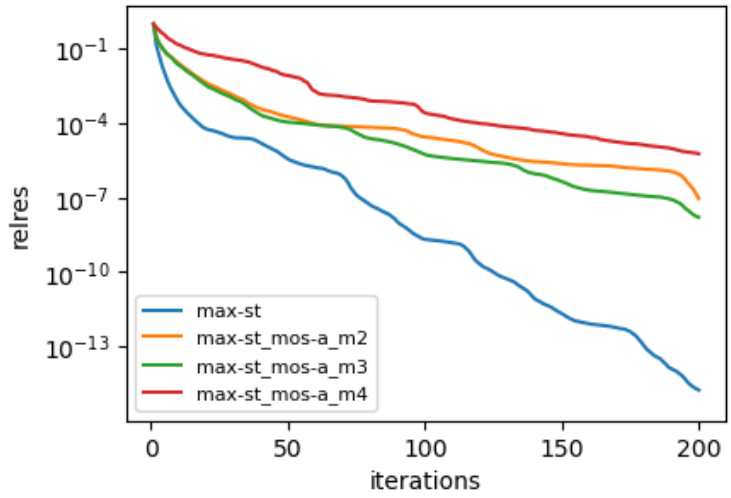
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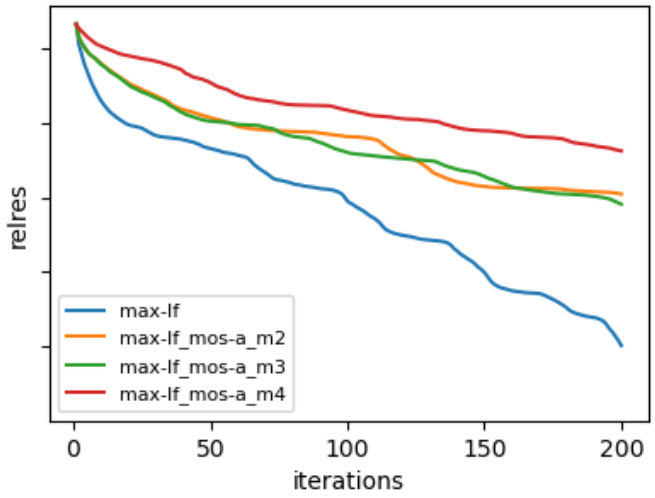
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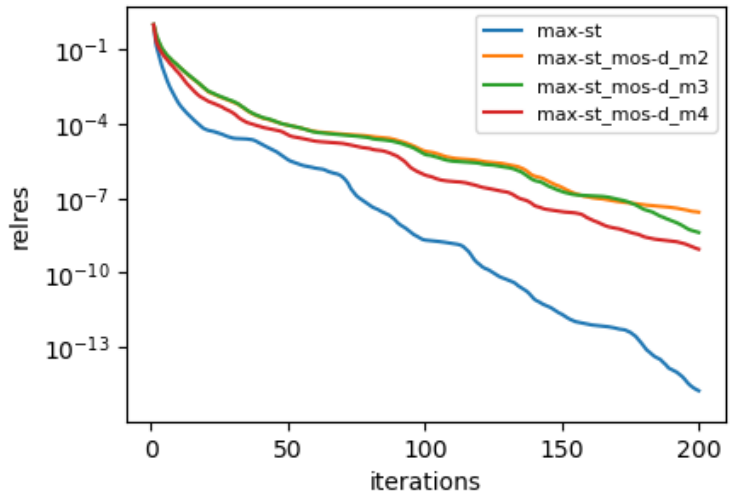
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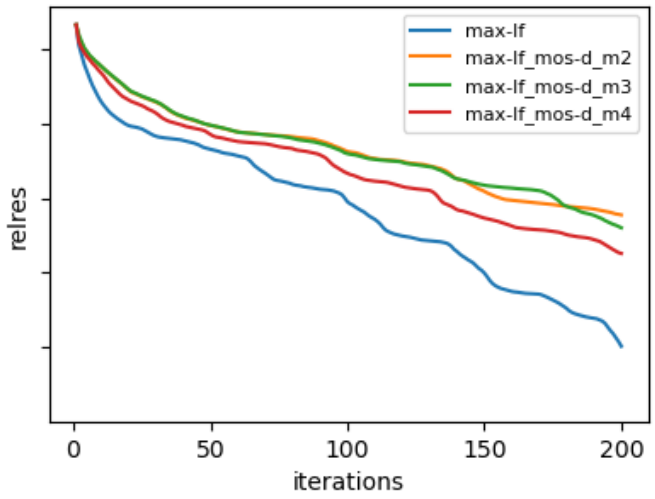
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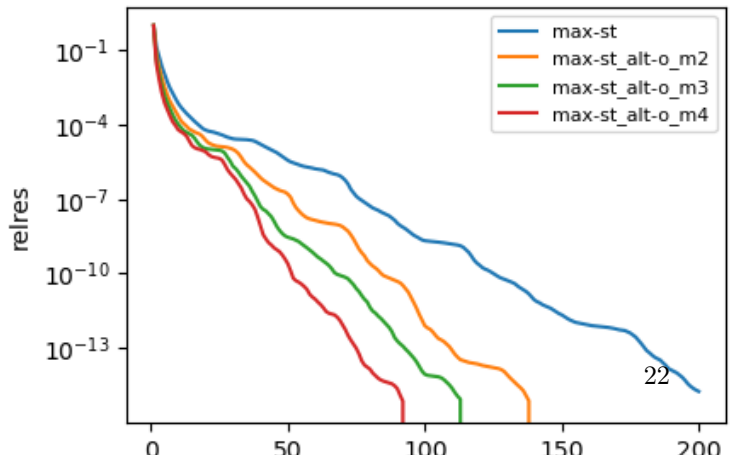
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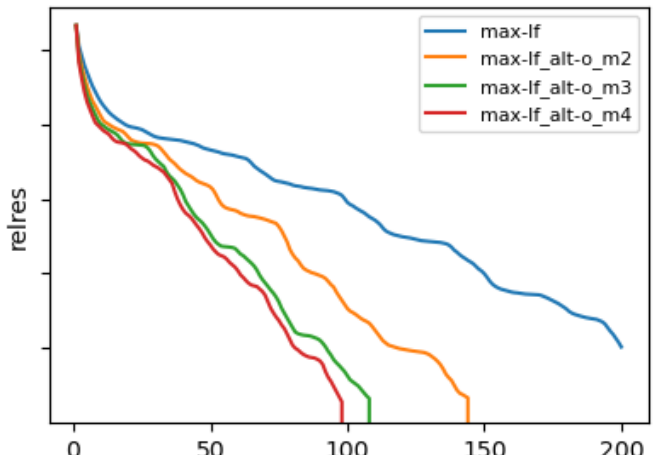
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