

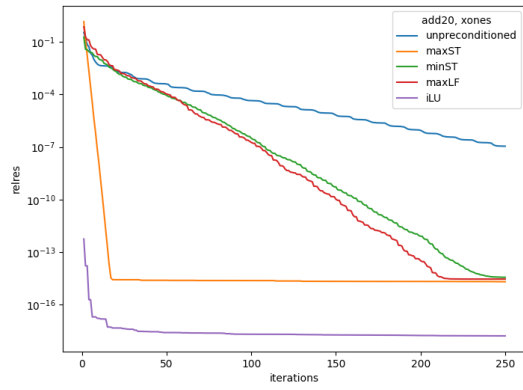
## 1 Test matrices

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

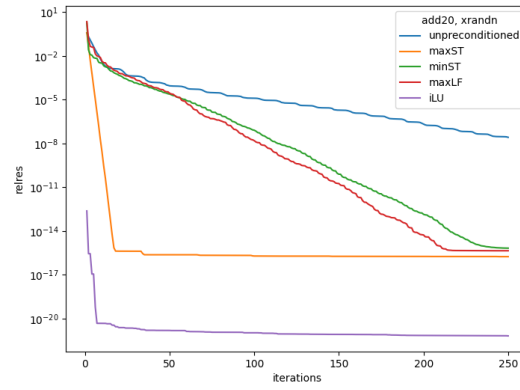
## 2 $S$ coverage

Matrix	maxST	minST	maxLF
<i>add20</i>	0.9997	0.6480	0.9496
<i>c-20</i>	0.9998	0.9996	0.9996
<i>cryg2500</i>	0.9064	0.5744	0.9040
<i>dw2048</i>	0.9437	0.6371	0.9423
<i>orsreg_1</i>	0.9954	0.5017	0.9949
<i>pde2961</i>	0.8742	0.6370	0.8730
<i>wang1</i>	0.8905	0.5316	0.8795

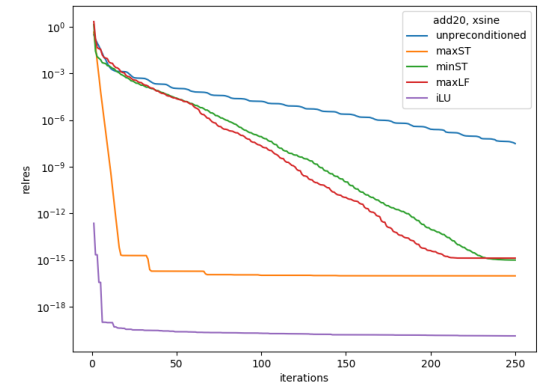
## 3 Results



(a)  $x = 1$

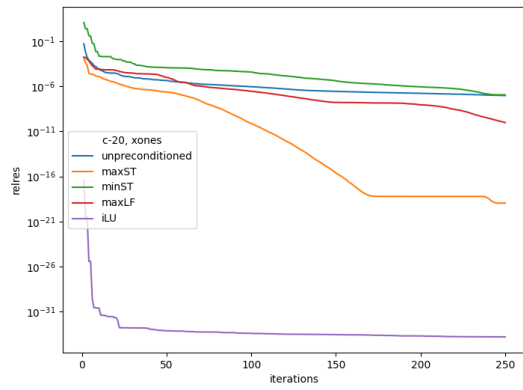


(b)  $x \sim \mathcal{N}(0, 1)$

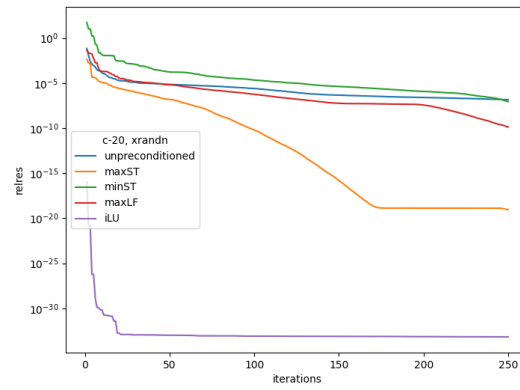


(c)  $x = \sin([0, 100\pi])$

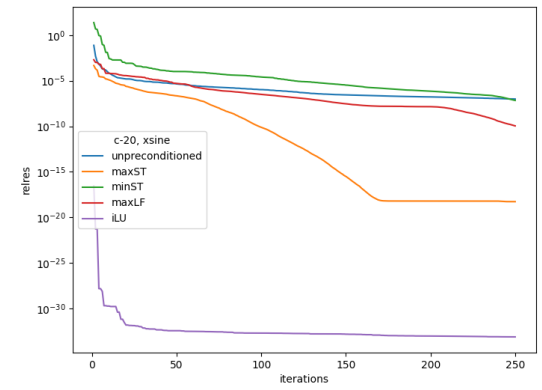
Figure 1: add20



(a)  $x = 1$

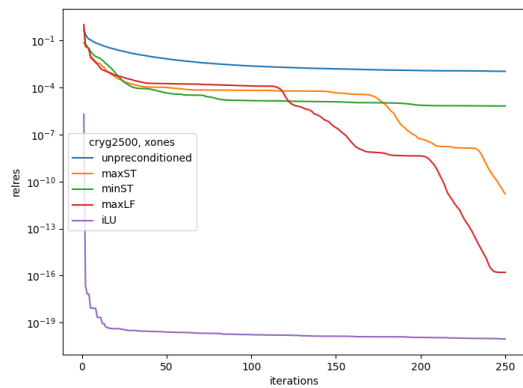


(b)  $x \sim \mathcal{N}(0, 1)$

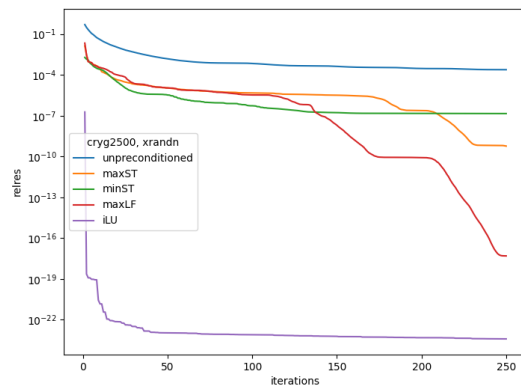


(c)  $x = \sin([0, 100\pi])$

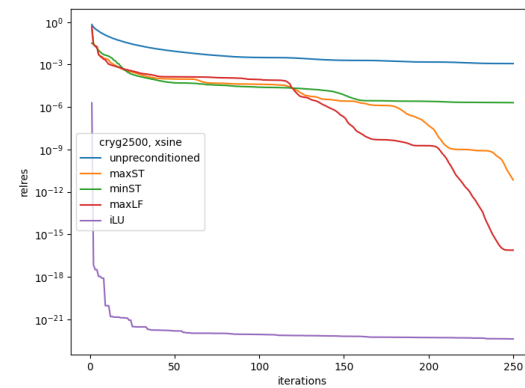
Figure 2: c-20



(a)  $x = 1$

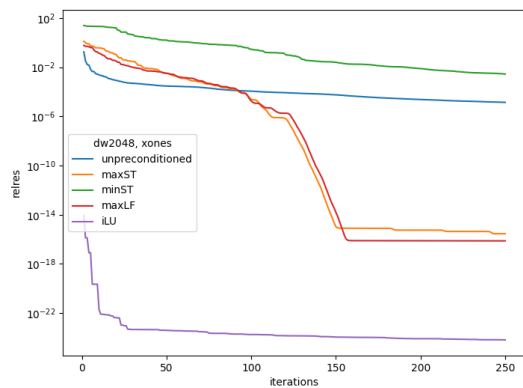


(b)  $x \sim \mathcal{N}(0, 1)$

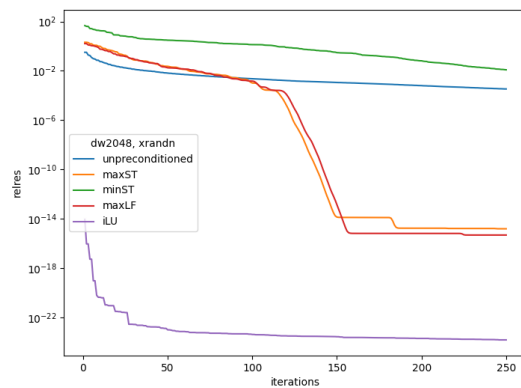


(c)  $x = \sin([0, 100\pi])$

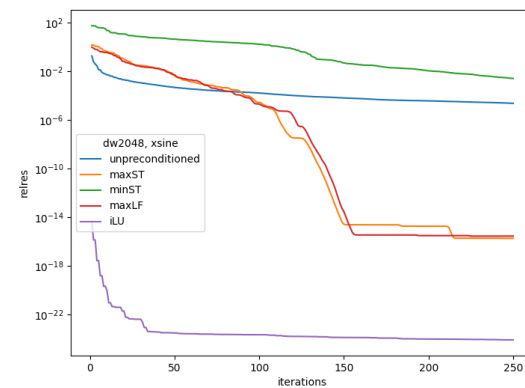
Figure 3: cryg2500



(a)  $x = 1$

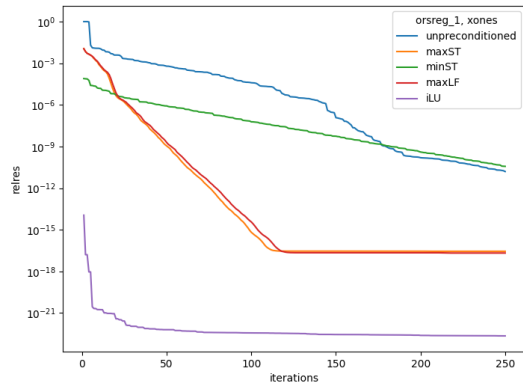


(b)  $x \sim \mathcal{N}(0, 1)$

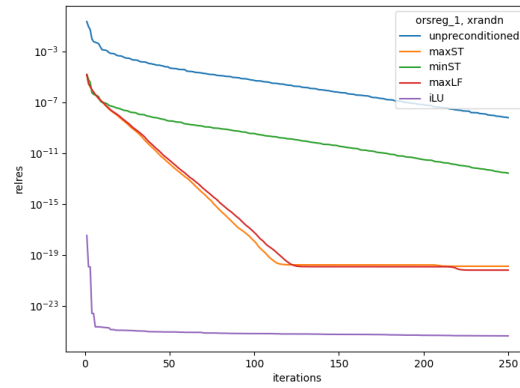


(c)  $x = \sin([0, 100\pi])$

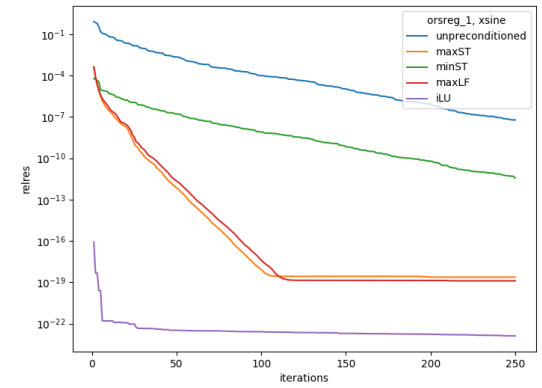
Figure 4: dw2048



(a)  $x = 1$

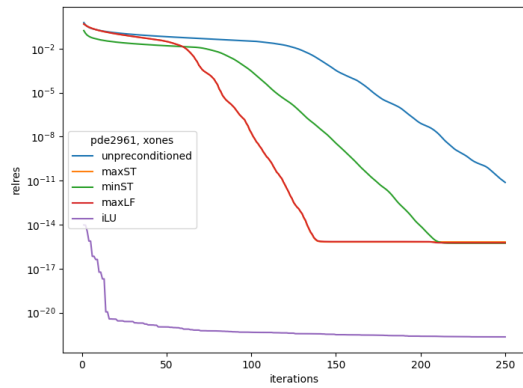


(b)  $x \sim \mathcal{N}(0, 1)$

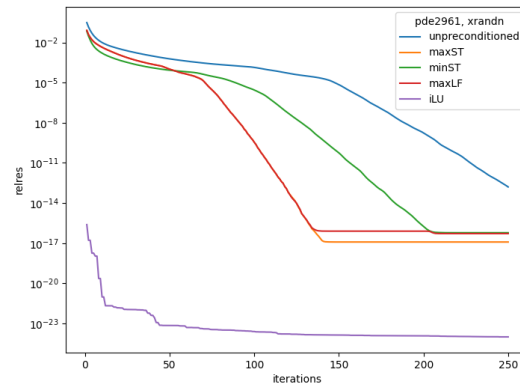


(c)  $x = \sin([0, 100\pi])$

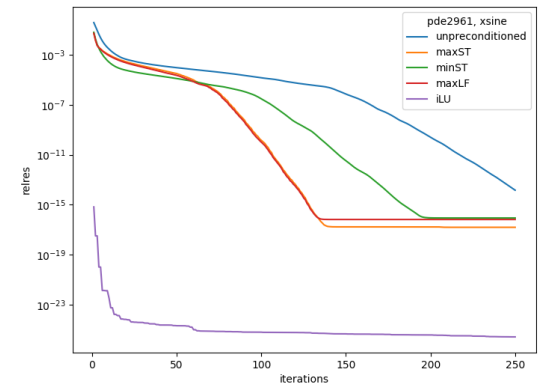
Figure 5: orsreg\_1



(a)  $x = 1$

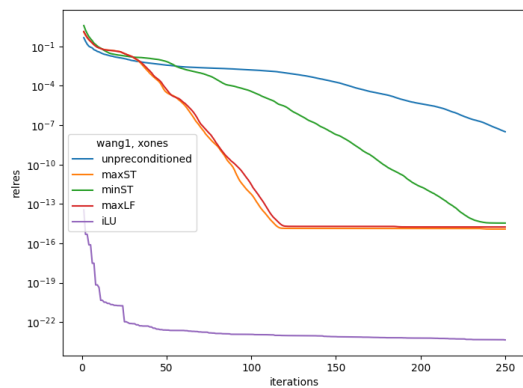


(b)  $x \sim \mathcal{N}(0, 1)$

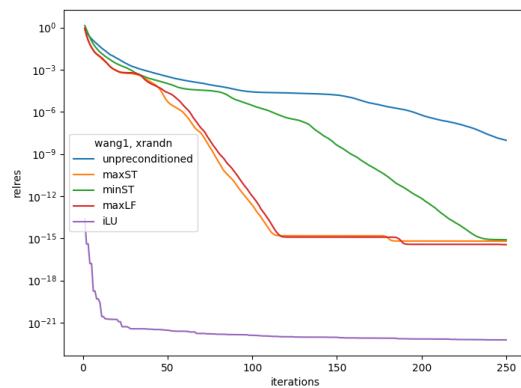


(c)  $x = \sin([0, 100\pi])$

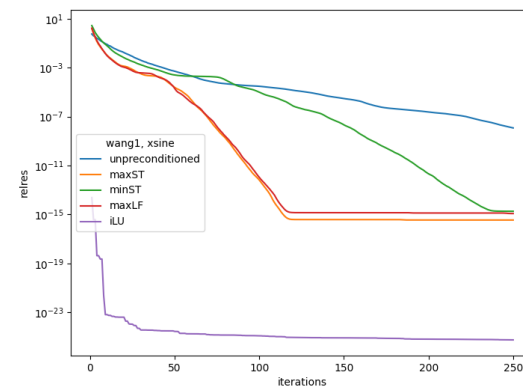
Figure 6: pde2961



(a)  $x = 1$



(b)  $x \sim \mathcal{N}(0, 1)$



(c)  $x = \sin([0, 100\pi])$

Figure 7: wang1