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- $\blacksquare \mathbf{P}^{\mathbf{H}}\mathbf{P} = \mathbf{I}$
- Takes the place of C
 - requires no changes to algorithms
- Minor differences between C and P
 - P ignores lowest frequencies / largest curvelet scales





Performance

Seismic Laboratory for Imaging and Modeling

- Simple benchmark test
 - 10 forward/transpose PWFDCT's

Decomposition	Global Size	Local Size	Overlap	Execution Time
2x2	1024x1024	544x544	16	51.97
		630x630	64	66.94
	2048x2048	1056x1056	16	201.85
		1152x1152	64	237.83
4x4	2048x2048	544x544	16	52.67
		630x630	64	67.26
	4096x4096	1056x1056	16	202.53
		1152x1152	64	240.25
8x8	4096x4096	544x544	16	61.89
		630x630	64	87.84
	8192x8192	1056×1056	16	220.68
		1152x1152	64	257.50









Where to next? Seismic Laboratory for Imaging and Modeling

- Further testing
 - very large scale runs
- Application to new algorithms, transforms
 - block solver
 - STOMP
 - Wave Atom

