

comparison of patches

MEDIAN of duration							is the scan type picked by optimizer							patch v1						patch v3					
cached	dataset	scan_type	test	prefetch	machine	rows	1	10	100	1000	10000	100000	1	10	100	1000	10000	100000	1	10	100	1000	10000	100000	
cached	cycle	bitmapscan	btree	0	i5	1000000							100%	100%	101%	100%	101%	101%	98%	98%	99%	98%	100%	100%	
						10000000							100%	98%	100%	102%	100%	100%	102%	97%	99%	98%	99%	100%	
						50000000							101%	100%	98%	100%	101%	101%	100%	101%	101%	100%	98%	98%	
					xeon	1000000						107%	100%	98%	97%	101%	91%	103%	111%	112%	99%	101%	100%		
				10000000								100%	102%	97%	105%	102%	100%	100%	88%	101%	104%	102%	100%		
				100000000								91%	100%	102%	107%	97%	101%	92%	101%	103%	111%	102%	100%		
					32 i5	1000000							100%	99%	100%	99%	99%	100%	98%	100%	99%	99%	100%	100%	
				10000000								98%	100%	102%	100%	100%	99%	100%	99%	100%	99%	100%	95%		
				50000000								100%	101%	100%	102%	100%	100%	101%	99%	100%	98%	99%	100%		
					xeon	1000000							104%	96%	109%	96%	99%	100%	96%	88%	84%	97%	99%	99%	
				10000000								98%	102%	104%	99%	99%	111%	103%	113%	93%	100%	101%	100%		
				100000000								103%	97%	101%	108%	97%	100%	99%	102%	95%	92%	100%	93%		
			btree-sort	0	i5	1000000							102%	136%	121%	131%	104%	84%	105%	86%	81%	132%	90%	87%	
						10000000								99%	75%	95%	125%	106%	89%	101%	124%	108%	100%	139%	107%
						50000000								105%	135%	123%	98%	101%	99%	79%	67%	84%	95%	92%	105%
					xeon	1000000							107%	119%	110%	95%	118%	106%	144%	140%	110%	94%	55%	85%	
				10000000								95%	90%	109%	104%	95%	117%	79%	85%	99%	99%	95%	90%		
				100000000								92%	81%	133%	125%	102%	110%	115%	106%	124%	95%	114%	102%		
					32 i5	1000000							114%	116%	82%	126%	108%	121%	105%	96%	108%	116%	109%	105%	
				10000000								107%	96%	95%	102%	96%	110%	103%	85%	124%	107%	104%	101%		
				50000000								108%	68%	91%	104%	107%	113%	82%	71%	118%	90%	81%	96%		
					xeon	1000000							134%	109%	120%	86%	103%	122%	161%	146%	106%	110%	83%	119%	
				10000000								131%	101%	119%	99%	97%	110%	88%	114%	88%	79%	107%	86%		
				100000000								107%	98%	98%	91%	106%	95%	111%	89%	81%	88%	91%	103%		
			hash	0	i5	1000000							101%	101%	101%	102%	100%	99%	102%	103%	99%	102%	101%	99%	
						10000000								97%	101%	103%	101%	103%	105%	98%	99%	98%	101%	105%	104%
						50000000								101%	96%	98%	99%	100%	100%	100%	107%	100%	96%	100%	95%
					xeon	1000000							98%	98%	105%	114%	101%	91%	97%	94%	101%	97%	99%	100%	
				10000000								99%	97%	100%	98%	93%	100%	102%	102%	101%	103%	102%	96%		
				100000000								98%	102%	102%	93%	101%	100%	96%	102%	100%	97%	101%	99%		
					32 i5	1000000							100%	102%	100%	101%	100%	100%	100%	99%	100%	99%	99%	102%	
				10000000								98%	101%	100%	102%	99%	96%	101%	96%	98%	100%	101%	100%		
				50000000								100%	99%	98%	102%	99%	100%	98%	98%	100%	101%	100%	99%		
					xeon	1000000							103%	99%	99%	102%	101%	94%	106%	101%	97%	116%	100%	104%	
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				100000000								107%	101%	97%	96%	102%	96%	100%	103%	99%	102%	99%	108%		
		indexscan	btree	0	i5	1000000							98%	99%	99%	98%	99%	99%	98%	97%	99%	97%	97%	100%	
						10000000							101%	99%	99%	99%	99%	99%	99%	99%	99%	99%	100%	103%	100%
						50000000							99%	101%	100%	101%	99%	99%	99%	101%	96%	97%	99%	99%	100%
						1000000							105%	99%	107%	96%	98%	90%	97%	114%	120%	97%	102%	104%	
						10000000							100%	100%	102%	100%	108%	101%	96%	95%	104%	105%	100%	101%	
						100000000							103%	102%	107%	108%	101%	101%	91%	106%	97%	113%	100%	102%	

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				xeon	1000000							103%	101%	102%	105%	100%	101%	103%	102%	104%	100%	101%	100%
					10000000							104%	104%	103%	99%	104%	100%	102%	101%	105%	103%	105%	106%
					100000000							105%	101%	100%	104%	102%	102%	102%	103%	102%	100%	101%	99%
				32 i5	1000000							102%	105%	99%	100%	104%	100%	102%	103%	104%	102%	99%	97%
					10000000							105%	101%	100%	102%	103%	103%	99%	103%	101%	97%	99%	101%
					50000000							93%	100%	101%	100%	100%	101%	99%	94%	104%	100%	101%	98%
				xeon	1000000							100%	104%	102%	103%	100%	102%	106%	105%	103%	101%	101%	102%
					10000000							101%	107%	101%	102%	98%	99%	100%	98%	105%	105%	101%	103%
					100000000							102%	104%	103%	105%	102%	99%	101%	102%	101%	102%	102%	103%
			hash	0 i5	1000000							99%	99%	100%	100%	101%	78%	98%	95%	100%	99%	99%	101%
					10000000							99%	99%	100%	100%	100%	101%	98%	99%	100%	99%	99%	99%
					50000000							101%	107%	100%	99%	99%	101%	100%	101%	100%	97%	99%	100%
				xeon	1000000							101%	100%	101%	104%	102%	72%	101%	98%	101%	100%	103%	71%
					10000000							98%	101%	102%	102%	102%	100%	102%	101%	101%	101%	98%	99%
					100000000							93%	104%	92%	91%	99%	93%	90%	92%	93%	92%	101%	101%
				32 i5	1000000							100%	101%	100%	100%	100%	99%	99%	99%	99%	100%	100%	98%
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					50000000							100%	102%	103%	97%	100%	100%	99%	100%	99%	99%	99%	99%
				xeon	1000000							102%	99%	102%	103%	102%	101%	103%	102%	101%	98%	100%	100%
					10000000							103%	103%	102%	100%	100%	101%	101%	101%	100%	103%	100%	100%
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	random	bitmapscan	btree	0 i5	1000000							101%	101%	101%	99%	99%	99%	99%	99%	99%	98%	99%	100%
					10000000							98%	102%	100%	99%	102%	99%	98%	98%	104%	99%	101%	99%
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				xeon	1000000							102%	104%	102%	97%	102%	92%	105%	102%	107%	110%	100%	100%
					10000000							106%	111%	107%	113%	102%	110%	99%	111%	107%	104%	102%	101%
					100000000							101%	103%	99%	93%	101%	107%	94%	104%	107%	98%	99%	101%
				32 i5	1000000							101%	99%	101%	100%	101%	100%	100%	98%	100%	100%	99%	100%
					10000000							102%	100%	101%	100%	101%	98%	100%	103%	101%	98%	98%	100%
					50000000							99%	100%	103%	100%	100%	100%	100%	101%	98%	100%	99%	100%
				xeon	1000000							110%	101%	95%	98%	98%	100%	106%	99%	103%	100%	101%	107%
					10000000							94%	97%	98%	110%	99%	108%	91%	101%	109%	98%	99%	95%
					100000000							102%	91%	96%	90%	101%	100%	105%	96%	96%	96%	100%	108%
			btree-sort	0 i5	1000000							98%	115%	101%	112%	107%	106%	91%	91%	109%	112%	96%	100%
					10000000							103%	100%	103%	104%	97%	109%	104%	90%	100%	93%	95%	94%
					50000000							95%	99%	100%	98%	101%	101%	96%	99%	99%	98%	97%	98%
				xeon	1000000							94%	106%	110%	91%	93%	108%	112%	93%	101%	99%	94%	110%
					10000000							94%	98%	95%	100%	103%	98%	102%	97%	103%	96%	106%	97%
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				32 i5	1000000							97%	96%	89%	102%	107%	99%	106%	97%	91%	102%	95%	99%
					10000000							93%	108%	100%	101%	100%	99%	100%	101%	109%	95%	99%	101%
					50000000							103%	102%	99%	99%	100%	102%	76%	73%	73%	74%	73%	75%
				xeon	1000000							117%	109%	111%	96%	120%	126%	86%	112%	103%	101%	99%	92%
					10000000							108%	101%	101%	107%	99%	102%	99%	105%	95%	101%	105%	97%
					100000000							102%	100%	100%	102%	99%	100%	99%	96%	103%	99%	103%	103%

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				xeon	1000000							104%	94%	101%	105%	99%	108%	98%	99%	96%	106%	99%	104%
					10000000							97%	110%	101%	93%	99%	107%	108%	93%	109%	100%	103%	112%
					100000000							107%	101%	99%	94%	104%	113%	90%	101%	97%	105%	102%	99%
		seqscan	btree	0 i5	1000000							100%	100%	102%	100%	102%	102%	99%	99%	101%	99%	99%	101%
					10000000							100%	100%	100%	100%	100%	100%	99%	100%	97%	99%	101%	100%
					50000000							100%	100%	100%	95%	94%	99%	92%	104%	100%	122%	99%	101%
				xeon	1000000							101%	102%	102%	104%	101%	101%	101%	102%	100%	103%	103%	112%
					10000000							102%	102%	102%	102%	101%	101%	102%	102%	99%	101%	101%	101%
					100000000							101%	102%	93%	93%	93%	101%	99%	93%	92%	93%	94%	101%
				32 i5	1000000							100%	100%	99%	99%	100%	101%	98%	100%	99%	98%	100%	99%
					10000000							99%	100%	99%	100%	102%	101%	99%	99%	104%	99%	99%	99%
					50000000							96%	96%	102%	99%	98%	89%	99%	99%	100%	100%	102%	100%
				xeon	1000000							104%	101%	98%	104%	103%	105%	104%	99%	103%	102%	100%	101%
					10000000							102%	101%	102%	102%	102%	102%	101%	101%	102%	102%	102%	101%
					100000000							100%	101%	102%	101%	104%	102%	101%	101%	102%	101%	101%	102%
			btree-sort	0 i5	1000000							102%	102%	102%	98%	98%	99%	98%	100%	100%	101%	103%	102%
					10000000							100%	103%	100%	104%	101%	101%	100%	98%	102%	101%	102%	100%
					50000000							100%	100%	100%	104%	98%	100%	101%	92%	100%	100%	99%	100%
				xeon	1000000							100%	101%	102%	104%	102%	100%	103%	103%	102%	101%	105%	101%
					10000000							100%	103%	103%	102%	101%	101%	104%	102%	103%	102%	103%	104%
					100000000							102%	97%	103%	103%	103%	101%	102%	102%	102%	105%	103%	102%
				32 i5	1000000							102%	103%	101%	101%	98%	101%	99%	100%	101%	97%	101%	98%
					10000000							103%	100%	102%	100%	101%	102%	103%	102%	102%	100%	102%	101%
					50000000							96%	100%	88%	97%	99%	100%	101%	100%	100%	100%	104%	101%
				xeon	1000000							103%	101%	103%	101%	100%	101%	102%	106%	103%	101%	102%	99%
					10000000							105%	104%	103%	102%	101%	98%	104%	104%	102%	103%	103%	101%
					100000000							103%	101%	102%	100%	102%	103%	105%	100%	102%	102%	102%	102%
			hash	0 i5	1000000							99%	101%	100%	99%	96%	99%	98%	101%	99%	99%	98%	101%
					10000000							99%	100%	100%	100%	100%	99%	100%	99%	99%	99%	98%	99%
					50000000							99%	100%	100%	100%	99%	101%	99%	100%	100%	99%	100%	99%
				xeon	1000000							102%	103%	104%	102%	102%	102%	103%	95%	101%	102%	102%	84%
					10000000							99%	99%	102%	100%	103%	102%	100%	99%	102%	103%	100%	100%
					100000000							96%	93%	101%	94%	103%	94%	93%	93%	92%	94%	91%	92%
				32 i5	1000000							99%	101%	99%	101%	100%	101%	98%	100%	99%	100%	100%	101%
					10000000							101%	101%	100%	101%	98%	100%	99%	97%	98%	99%	100%	98%
					50000000							100%	100%	100%	100%	94%	100%	101%	96%	100%	97%	103%	95%
				xeon	1000000							101%	102%	101%	99%	103%	116%	102%	101%	101%	102%	100%	91%
					10000000							101%	102%	102%	103%	105%	102%	105%	101%	102%	102%	101%	98%
					100000000							98%	102%	102%	101%	102%	101%	100%	102%	101%	104%	101%	103%
		sequential	bitmapscan	btree	0 i5							101%	100%	100%	101%	101%	99%	100%	99%	102%	101%	99%	100%
					10000000							100%	100%	99%	102%	100%	99%	96%	99%	101%	99%	98%	99%
					50000000							101%	101%	100%	99%	102%	97%	98%	101%	98%	100%	100%	100%
				xeon	1000000							99%	101%	106%	95%	104%	98%	108%	100%	103%	99%	100%	101%
					10000000							96%	104%	109%	100%	96%	101%	104%	102%	99%	110%	102%	101%
					100000000							98%	103%	105%	98%	100%	102%	100%	108%	95%	93%	96%	102%

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				32 i5	1000000							101%	100%	102%	101%	100%	99%	98%	98%	98%	98%	99%	100%
					10000000							98%	100%	101%	99%	100%	99%	97%	99%	100%	99%	98%	99%
					50000000							98%	102%	101%	100%	100%	99%	100%	99%	98%	101%	99%	99%
				xeon	1000000							104%	100%	103%	96%	99%	101%	98%	98%	98%	105%	105%	99%
					10000000							97%	102%	97%	90%	100%	105%	105%	94%	106%	98%	100%	103%
					100000000							107%	103%	107%	101%	103%	103%	109%	97%	90%	107%	95%	100%
			btree-sort	0 i5	1000000							99%	90%	100%	93%	111%	112%	98%	76%	106%	99%	123%	85%
					10000000							99%	92%	118%	97%	101%	97%	108%	92%	98%	104%	76%	127%
					50000000							97%	95%	72%	76%	137%	76%	78%	108%	92%	62%	82%	80%
				xeon	1000000							117%	87%	76%	102%	98%	87%	97%	106%	140%	90%	119%	100%
					10000000							74%	93%	99%	90%	132%	104%	136%	102%	101%	97%	100%	94%
					100000000							98%	127%	102%	89%	119%	118%	81%	97%	98%	117%	96%	96%
				32 i5	1000000							74%	90%	101%	132%	85%	89%	106%	90%	81%	114%	98%	75%
					10000000							134%	89%	103%	93%	115%	87%	110%	82%	98%	98%	99%	100%
					50000000							116%	90%	87%	79%	128%	86%	89%	65%	63%	82%	121%	456%
				xeon	1000000							133%	74%	127%	129%	79%	83%	112%	77%	112%	87%	85%	115%
					10000000							112%	90%	94%	87%	88%	126%	82%	77%	118%	104%	93%	96%
					100000000							111%	125%	117%	100%	84%	119%	88%	85%	128%	95%	115%	87%
			hash	0 i5	1000000							100%	100%	103%	101%	100%	102%	99%	101%	100%	99%	98%	99%
					10000000							98%	99%	104%	101%	100%	99%	100%	100%	100%	98%	98%	100%
					50000000							103%	102%	101%	103%	101%	99%	99%	98%	99%	100%	99%	100%
				xeon	1000000							99%	98%	106%	98%	101%	101%	98%	91%	95%	94%	104%	80%
					10000000							99%	95%	100%	94%	98%	96%	99%	96%	103%	96%	102%	98%
					100000000							97%	107%	102%	105%	100%	99%	88%	101%	104%	97%	102%	99%
				32 i5	1000000							103%	99%	100%	100%	100%	98%	102%	99%	99%	99%	99%	100%
					10000000							102%	100%	99%	100%	101%	100%	98%	101%	97%	101%	101%	100%
					50000000							99%	101%	102%	106%	101%	100%	102%	97%	101%	107%	100%	100%
				xeon	1000000							101%	100%	99%	97%	96%	103%	102%	104%	101%	107%	96%	100%
					10000000							91%	92%	103%	94%	100%	102%	98%	94%	105%	110%	105%	97%
					100000000							98%	90%	98%	105%	97%	98%	97%	99%	100%	100%	101%	99%
		indexscan	btree	0 i5	1000000							100%	99%	101%	100%	99%	102%	99%	100%	98%	99%	99%	101%
					10000000							99%	100%	102%	101%	99%	99%	97%	100%	99%	100%	100%	99%
					50000000							101%	99%	99%	101%	100%	99%	100%	99%	100%	99%	100%	101%
				xeon	1000000							100%	99%	106%	95%	102%	101%	112%	104%	102%	105%	98%	98%
					10000000							94%	106%	107%	106%	101%	100%	103%	100%	101%	107%	105%	101%
					100000000							104%	91%	103%	98%	105%	100%	106%	115%	96%	94%	93%	103%
				32 i5	1000000							101%	103%	101%	101%	102%	103%	100%	102%	99%	101%	103%	108%
					10000000							98%	96%	101%	101%	102%	103%	101%	100%	101%	103%	102%	108%
					50000000							99%	101%	100%	103%	103%	105%	100%	96%	98%	101%	106%	108%
				xeon	1000000							98%	103%	109%	99%	99%	109%	92%	101%	97%	105%	104%	96%
					10000000							95%	105%	94%	90%	103%	104%	105%	96%	108%	103%	101%	105%
					100000000							109%	102%	110%	107%	105%	107%	100%	96%	102%	107%	97%	90%
			btree-sort	0 i5	1000000							102%	100%	101%	99%	99%	98%	98%	100%	99%	102%	99%	100%
					10000000							101%	99%	99%	100%	100%	101%	100%	98%	100%	100%	102%	99%
					50000000							95%	103%	99%	99%	98%	99%	99%	104%	99%	96%	100%	101%

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				xeon	1000000							101%	102%	99%	101%	100%	99%	100%	101%	99%	104%	97%	100%
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	random	bitmapscan	btree	0 i5	1000000							94%	98%	102%	104%	98%	92%	92%	101%	92%	104%	101%	82%
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comparison of patches

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comparison of patches

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		seqscan	btree	0 i5	1000000							98%	114%	91%	92%	87%	102%	118%	111%	95%	110%	90%	78%
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comparison of patches

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	sequential	bitmapscan	btree	0 i5	1000000							97%	97%	101%	98%	96%	96%	93%	95%	98%	92%	96%	98%
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comparison of patches

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			btree-sort	0 i5	1000000									101%	101%	105%	104%	102%	100%	98%	100%	99%	91%	107%	100%
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		seqscan	btree	0 i5	1000000									97%	105%	92%	96%	94%	89%	100%	119%	100%	98%	100%	95%
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comparison of patches

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					10000000								99%	93%	100%	97%	101%	98%	105%	100%	102%	103%	97%	100%
					100000000								100%	101%	101%	101%	100%	104%	100%	100%	100%	100%	101%	101%
				32 i5	1000000								96%	95%	96%	96%	102%	87%	81%	93%	99%	96%	103%	110%
					10000000								98%	101%	101%	96%	101%	97%	92%	113%	100%	95%	95%	119%
					50000000								100%	106%	90%	95%	101%	103%	105%	101%	96%	101%	100%	104%
				xeon	1000000								99%	100%	101%	100%	102%	101%	101%	100%	96%	99%	99%	91%
					10000000								101%	93%	100%	100%	98%	99%	98%	101%	99%	102%	100%	100%
					100000000								100%	101%	100%	100%	100%	100%	100%	101%	102%	101%	101%	100%
			hash	0 i5	1000000								109%	97%	108%	116%	93%	110%	102%	89%	91%	98%	100%	97%
					10000000								99%	99%	98%	102%	99%	97%	99%	106%	84%	102%	98%	99%
					50000000								96%	100%	100%	100%	103%	96%	99%	99%	105%	100%	99%	90%
				xeon	1000000								99%	100%	100%	101%	101%	100%	101%	100%	99%	101%	99%	100%
					10000000								99%	101%	100%	100%	95%	98%	100%	101%	100%	100%	102%	102%
					100000000								101%	101%	100%	100%	101%	101%	99%	100%	100%	101%	100%	100%
				32 i5	1000000								97%	103%	97%	94%	100%	96%	110%	88%	92%	108%	111%	84%
					10000000								101%	99%	89%	100%	100%	98%	91%	92%	98%	99%	99%	99%
					50000000								100%	100%	108%	101%	100%	100%	107%	99%	94%	100%	100%	100%
				xeon	1000000								100%	98%	100%	101%	130%	98%	101%	102%	100%	99%	100%	96%
					10000000								99%	100%	100%	100%	99%	106%	100%	100%	100%	100%	99%	99%
					100000000								101%	101%	100%	101%	100%	101%	100%	101%	101%	101%	100%	100%