Flow version: 2024.10 pre
--matrix-add-well-contributions = false
--threads-per-process = 1
GPU → --accelerator-mode = rocsparse

Simulation Time									
CASE	CI	PU	GPU						
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes					
NORNE_ATW2013	460.32	369.01	462.49	2317.64					
NORNE_ATW2013_1A_STDW	281.81	193.43	222.67	1005.47					
NORNE_ATW2013_1A_MSW	ORNE ATW2013 1A MSW 1259.88 884.7 886.53 10								

Apply Time										
CASE	CI	PU	GPU							
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes						
NORNE_ATW2013	3.75885	1.48474	2.88678855	24.18425339						
NORNE_ATW2013_1A_STDW	2.34652	0.67926	2.34703454	11.21947114						
NORNE_ATW2013_1A_MSW	19.67701	7.16545		9.64544						

Apply Number of Calls								
CASE	CI	PU	GPU					
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes				
NORNE_ATW2013	1105434	396496	73635	889929				
NORNE_ATW2013_1A_STDW	451377	121351	53426	339125				
NORNE_ATW2013_1A_MSW	N 1664226 572740							

Well Rate Calculation Time									
CASE	CF	PU	GPU						
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes					
NORNE_ATW2013	2.42219	2.10769	2.74193	2.13144					
NORNE_ATW2013_1A_STDW	1.02467	1.12007	1.04844	1.12786					
NORNE_ATW2013_1A_MSW 15.98884 11.61665 10.70283 20.10									

computePerfRate Time										
CASE	CI	PU	GPU							
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes						
NORNE_ATW2013	4.9	4.26153	5.52331	4.28733						
NORNE_ATW2013_1A_STDW	2.08871	2.26381	2.12007	2.27549						
NORNE_ATW2013_1A_MSW	37.30806	37.30806 27.07497 24.9399 47								

Flow version: 2024.10 pre --accelerator-mode = none --threads-per-process = 1

	Simulation Time									
CASE	Т	RUE	F	ALSE	difference					
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes				
NORNE_ATW2013_1A_STDW	236.38	115.38	235.88	166.83	-0.21	30.84				
NORNE_ATW2013_1A_MSW	957.89	727.7	1203.18	846.21	20.39	14.00				
NORNE_ATW2013_2A_STDW	631.41	369.65	634.67	395.85	0.51	6.62				
NORNE_ATW2013_2A_MSW	531.21	294.47	527.12	302.59	-0.78	2.68				
NORNE_ATW2013_2B_STDW	1016.63	630.73	626.13	-1	-62.37					
NORNE_ATW2013_2B_MSW	542.52	301.85	739.98	334.83	26.68	9.85				
NORNE_ATW2013_3B_STDW	548.27	394.71	561.64	427.82	2.38	7.74				
NORNE_ATW2013_3B_MSW	382.11	253.45	400.95	255.88	4.70	0.95				
NORNE_ATW2013_3C_STDW	547.32	384.78	556.34	417.63	1.62	7.87				
NORNE_ATW2013_3C_MSW	399.46	246.58	401.75	256.25	0.57	3.77				
NORNE_ATW2013_4B_STDW	-1	-1	-1	-1						
NORNE_ATW2013_4B_MSW	916.58	468.57	665.59	621.92	-37.71	24.66				
NORNE_ATW2013_4C_STDW	-1	-1	-1	-1						
NORNE_ATW2013_4C_MSW	829.37	517.09	674.61	543.49	-22.94	4.86				

	Well Rate Calculation Time									
CASE	Т	RUE	F	ALSE	difference					
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes				
NORNE_ATW2013_1A_STDW	0.73816	0.53487	0.72893	0.78319	-1.27	31.71				
NORNE_ATW2013_1A_MSW	12.34318	10.24136	15.89046	11.54339	22.32	11.28				
NORNE_ATW2013_2A_STDW	30.27007	24.5943	30.23048	24.60822	-0.13	0.06				
NORNE_ATW2013_2A_MSW	2.16817	2.06082	2.04604	1.84583	-5.97	-11.65				
NORNE_ATW2013_2B_STDW	44.84009	37.68727	35.08649	-1	-27.80					
NORNE_ATW2013_2B_MSW	2.7729	2.16915	7.06408	2.60232	60.75	16.65				
NORNE_ATW2013_3B_STDW	27.01089	26.1908	27.15103	25.99466	0.52	-0.75				
NORNE_ATW2013_3B_MSW	1.58898	1.4061	1.61051	1.37836	1.34	-2.01				
NORNE_ATW2013_3C_STDW	26.12393	25.12706	26.06932	25.03868	-0.21	-0.35				
NORNE_ATW2013_3C_MSW	1.64138	1.36943	1.62272	1.36594	-1.15	-0.26				
NORNE_ATW2013_4B_STDW	-1	-1	-1	-1	0.00					
NORNE_ATW2013_4B_MSW	9.47104	4.74043	4.958	7.43754	-91.03	36.26				
NORNE_ATW2013_4C_STDW	-1	-1	-1	-1	0.00					
NORNE_ATW2013_4C_MSW	7.93004	5.67915	5.06219	6.56736	-56.65	13.52				

computePerfRate Time										
CASE	Т	RUE		ALSE	di	difference				
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes				
NORNE_ATW2013_1A_STDW	1.77302	1.28477	1.75276	1.89261	-1.16	32.12				
NORNE_ATW2013_1A_MSW	28.78049	23.92591	37.09257	26.91456	22.41	11.10				
NORNE_ATW2013_2A_STDW	74.21834	60.21789	74.04197	60.31411	-0.24	0.16				
NORNE_ATW2013_2A_MSW	5.05028	4.80888	4.77578	4.31532	-5.75	-11.44				
NORNE_ATW2013_2B_STDW	109.87318	92.33439	85.92915	-1	-27.86					
NORNE_ATW2013_2B_MSW	6.46217	5.07505	16.49363	6.05703	60.82	16.21				
NORNE_ATW2013_3B_STDW	66.04044	64.14372	66.46662	63.70002	0.64	-0.70				
NORNE_ATW2013_3B_MSW	3.70081	3.27977	3.76096	3.21547	1.60	-2.00				
NORNE_ATW2013_3C_STDW	63.89072	61.56199	63.80736	61.35703	-0.13	-0.33				
NORNE_ATW2013_3C_MSW	3.82573	3.18065	3.78917	3.18528	-0.96	0.15				
NORNE_ATW2013_4B_STDW	-1	-1	-1	-1	0.00					
NORNE_ATW2013_4B_MSW	22.08705	11.05635	11.55087	17.32915	-91.22	36.20				
NORNE_ATW2013_4C_STDW	-1	-1	-1	-1	0.00					
NORNE ATW2013 4C MSW	18.50847	13.25306	11.78018	15.30847	-57.12	13.43				

Percentage of computePerfRate time in Simulation time								
CASE	Т	RUE	FALSE					
CASE	ILU0	cpr_quasiimpes	ILU0	cpr_quasiimpes				
NORNE_ATW2013_1A_STDW	0.750	1.114	0.743	1.134				
NORNE_ATW2013_1A_MSW	3.005	3.288	3.083	3.181				
NORNE_ATW2013_2A_STDW	11.754	16.291	11.666	15.237				
NORNE_ATW2013_2A_MSW	0.951	1.633	0.906	1.426				
NORNE_ATW2013_2B_STDW	10.808	14.639	13.724					
NORNE_ATW2013_2B_MSW	1.191	1.681	2.229	1.809				
NORNE_ATW2013_3B_STDW	12.045	16.251	11.834	14.889				
NORNE_ATW2013_3B_MSW	0.969	1.294	0.938	1.257				
NORNE_ATW2013_3C_STDW	11.673	15.999	11.469	14.692				
NORNE_ATW2013_3C_MSW	0.958	1.290	0.943	1.243				
NORNE_ATW2013_4B_STDW								
NORNE_ATW2013_4B_MSW	2.410	2.360	1.735	2.786				
NORNE_ATW2013_4C_STDW								
NORNE_ATW2013_4C_MSW	2.232	2.563	1.746	2.817				

--linear-solver=ilu0 --threads-per-process = 1 GPU → --accelerator-mode = rocsparse TRUE → --matrix-add-well-contributions = true; FALSE → --matrix-add-well-contributions = false

		S	Simulation Time	9	Apply Time		
CASE	Processor	TRUE	FALSE	difference	FALSE	Percentage	
NORNE_ATW2013_1A_MSW	GPU	1011.66	871.82	-16.04		0.00	
NORNE_ATW2013_1A_MSW	CPU	937.51	1237.81	24.26	19.25472	1.56	
NORNE_ATW2013_1A_STDW	GPU	218.2	226.71	3.75	2.3945913	1.06	
NORNE_ATW2013_1A_STDW	CPU	234.73	241.89	2.96	1.98087	0.82	
NORNE_ATW2013_2A_MSW	GPU	481.38	510.85	5.77		0.00	
NORNE_ATW2013_2A_MSW	CPU	526.27	539.64	2.48	5.91206	1.10	
NORNE_ATW2013_2A_STDW	GPU	578.3	603.34	4.15	4.84064258	0.80	
NORNE_ATW2013_2A_STDW	CPU	618.38	639.62	3.32	4.562	0.71	
NORNE_ATW2013_2B_MSW	GPU	472.05	493.34	4.32		0.00	
NORNE_ATW2013_2B_MSW	CPU	524.81	752.1	30.22	6.33435	0.84	
NORNE_ATW2013_2B_STDW	GPU	942.33	569.09	-65.59	4.56883935	0.80	
NORNE_ATW2013_2B_STDW	CPU	1008.38	628.63	-60.41	3.861	0.61	
NORNE_ATW2013_3B_MSW	GPU	368.91	386.21	4.48		0.00	
NORNE_ATW2013_3B_MSW	CPU	381.92	402.23	5.05	5.55181	1.38	
NORNE_ATW2013_3B_STDW	GPU	528.18	524.7	-0.66	4.13636038	0.79	
NORNE_ATW2013_3B_STDW	CPU	551.97	566.96	2.64	4.01996	0.71	
NORNE_ATW2013_3C_MSW	GPU	359.22	378.16	5.01		0.00	
NORNE_ATW2013_3C_MSW	CPU	394.93	406.31	2.80	5.48382	1.35	
NORNE_ATW2013_3C_STDW	GPU	513.09	523.52	1.99	4.13142443	0.79	
NORNE_ATW2013_3C_STDW	CPU	542.68	554.88	2.20	3.78478	0.68	

Flow version: 2024.10 pre
--linear-solver=ilu0
--threads-per-process = 1
GPU --accelerator-mode = rocsparse
TRUE --matrix-add-well-contributions = true; FALSE --matrix-add-well-contributions = false

	1								
			Simulation Tim	_	Apply		Data Transfer Time		
CASE	Processor	TRUE	FALSE	difference	FALSE	Percentage	FALSE	Percentage	
NORNE_ATW2013_1A_MSW	GPU	1044.55	864.72	-20.80	11.90674	1.38	211.9796	24.51424739	
NORNE_ATW2013_1A_MSW	CPU	958.61	1220.13	21.43	19.36718	1.59		0	
NORNE_ATW2013_1A_STDW	GPU	219.91	222	0.94	2.36034851	1.06		0	
NORNE_ATW2013_1A_STDW	CPU	235.1	237.44	0.99	2.01221	0.85		0	
NORNE_ATW2013_2A_MSW	GPU	487.88	505.11	3.41	4.79187	0.95	176.61359	34.9653719	
NORNE_ATW2013_2A_MSW	CPU	528.97	530.03	0.20	5.91581	1.12		0	
NORNE_ATW2013_2A_STDW	GPU	585.82	602.14	2.71	4.82475251	0.80		0	
NORNE_ATW2013_2A_STDW	CPU	627.06	637.23	1.60	4.64565	0.73		0	
NORNE_ATW2013_2B_MSW	GPU	467.62	486.6	3.90	4.0003	0.82	168.84321	34.6985635	
NORNE_ATW2013_2B_MSW	CPU	542.98	750.95	27.69	6.33105	0.84		0	
NORNE_ATW2013_2B_STDW	GPU	958.96	566.58	-69.25	4.47798244	0.79		0	
NORNE_ATW2013_2B_STDW	CPU	1007.8	624.14	-61.47	3.91054	0.63		0	
NORNE_ATW2013_3B_MSW	GPU	364.62	380.93	4.28	4.43599	1.16	113.81643	29.87856824	
NORNE_ATW2013_3B_MSW	CPU	384.99	397.56	3.16	5.42068	1.36		0	
NORNE_ATW2013_3B_STDW	GPU	523.71	530.17	1.22	4.09509052	0.77		0	
NORNE_ATW2013_3B_STDW	CPU	553.06	561.75	1.55	3.91134	0.70		0	
NORNE_ATW2013_3C_MSW	GPU	361.77	366.83	1.38	4.44649	1.21	113.25565	30.87415151	
NORNE_ATW2013_3C_MSW	CPU	399.29	401.87	0.64	5.47244	1.36		0	
NORNE_ATW2013_3C_STDW	GPU	505.99	520.12	2.72	4.04742224	0.78		0	
NORNE_ATW2013_3C_STDW	CPU	544.06	556.46	2.23	3.76197	0.68		0	

		Simulation Time			Apply	Time	Data Transfer Time	
CASE	Processor	TRUE	FALSE	Difference (%)	FALSE	Percentage	FALSE	Percentage
NORNE_ATW2013_1A_MSW	GPU	1044.55	864.72	-20.80	11.91	1.38	211.98	24.51
NORNE_ATW2013_2A_MSW	GPU	487.88	505.11	3.41	4.79	0.95	176.61	34.97
NORNE_ATW2013_2B_MSW	GPU	467.62	486.6	3.90	4.00	0.82	168.84	34.70
NORNE_ATW2013_3B_MSW	GPU	364.62	380.93	4.28	4.44	1.16	113.82	29.88
NORNE_ATW2013_3C_MSW	GPU	361.77	366.83	1.38	4.45	1.21	113.26	30.87