

Log analysis of M34000607 PRP EE occurrence, on roa Win10 Pro x64 system, Radeon VII gpu with Samsung gpu ram										grayed cells contain formulas				
GpuOwl v6.11-364-g36f4e2a										gpu ram clock				
date	local time	delta time	delta days	node/gpu	exponent	Iteration @ check	PRP3 res64 seen	GEC check time	past count	setting MHz				
2021-03-14	08:33:45	02:26:47	0.102	roa/radeonvii	340000607	EE 2200000	0.65%; 3991 us/it; ETA 15d 14:31;	40593e3281ef501f (check 2.31s)	0	985				
2021-03-14	18:58:00	10:24:15	0.434	roa/radeonvii	340000607	EE 11300000	3.32%; 4018 us/it; ETA 15d 06:50;	6170aa84438dbef5 (check 2.16s)	1	errors 985				
2021-03-15	00:22:33	05:24:33	0.225	roa/radeonvii	340000607	EE 16000000	4.71%; 4008 us/it; ETA 15d 00:43;	3371d97df1768a97 (check 2.15s)	2	errors 985				
2021-03-15	08:36:29	08:13:56	0.343	roa/radeonvii	340000607	EE 23250000	6.84%; 4035 us/it; ETA 14d 19:00;	6411067b11695996 (check 2.15s)	3	errors 985				
2021-03-15	15:56:50	07:20:21	0.306	roa/radeonvii	340000607	EE 29700000	8.74%; 4020 us/it; ETA 14d 10:28;	1870056275db0e35 (check 2.16s)	4	errors 985				
2021-03-15	17:38:29	01:41:39	0.071	roa/radeonvii	340000607	EE 31150000	9.16%; 4016 us/it; ETA 14d 08:31;	de1e3bb90564a143 (check 2.17s)	5	errors 985				
2021-03-15	18:29:18	00:50:49	0.035	roa/radeonvii	340000607	EE 31850000	9.37%; 3993 us/it; ETA 14d 05:46;	0000000000000000 (check 2.09s)	6	errors 985				
2021-03-15	18:59:50	00:30:32	0.021	roa/radeonvii	340000607	EE 32250000	9.49%; 4016 us/it; ETA 14d 07:20;	52ff744de7dbca9e (check 2.15s)	7	errors 985				
2021-03-15	22:56:55	03:57:05	0.165	roa/radeonvii	340000607	EE 35700000	10.50%; 4018 us/it; ETA 14d 03:38;	2dcf22901d7eaea8 (check 2.15s)	8	errors 985				
2021-03-16	06:21:42	07:24:47	0.309	roa/radeonvii	340000607	EE 42200000	12.41%; 4021 us/it; ETA 13d 20:37;	e801ba76f94217c7 (check 2.16s)	9	errors 985				
2021-03-16	07:36:24	01:14:42	0.052	roa/radeonvii	340000607	EE 43250000	12.72%; 4025 us/it; ETA 13d 19:49;	747cf9785ed2b6de (check 2.16s)	10	errors 980				
2021-03-16	11:03:27	03:27:03	0.144	roa/radeonvii	340000607	EE 46250000	13.60%; 4023 us/it; ETA 13d 16:18;	144b8997c8918dae (check 2.16s)	11	errors 980				
2021-03-16	22:23:07	11:19:40	0.472	roa/radeonvii	340000607	EE 56200000	16.53%; 4033 us/it; ETA 13d 05:58;	e5ea208daf19adb5 (check 2.17s)	12	errors 970				
2021-03-16	23:21:02	00:57:55	0.040	roa/radeonvii	340000607	EE 57000000	16.76%; 4044 us/it; ETA 13d 05:55;	dc909dd3d2d768ee (check 2.16s)	13	errors 970				
2021-03-17	01:50:53	02:29:51	0.104	roa/radeonvii	340000607	EE 59150000	17.40%; 4047 us/it; ETA 13d 03:44;	6eb837f612ce4800 (check 2.17s)	14	errors 970				
2021-03-17	03:16:02	01:25:09	0.059	roa/radeonvii	340000607	EE 60350000	17.75%; 4037 us/it; ETA 13d 01:34;	a61df19742781115 (check 2.17s)	15	errors 970				
2021-03-17	03:56:54	00:40:52	0.028	roa/radeonvii	340000607	EE 60900000	17.91%; 4027 us/it; ETA 13d 00:14;	00ffc6bb7940ed6a (check 2.14s)	16	errors 970				
2021-03-17	06:10:09	02:13:15	0.093	roa/radeonvii	340000607	EE 62800000	18.47%; 4055 us/it; ETA 13d 00:14;	bb97b5fc876fe93a (check 2.12s)	17	errors 960				
2021-03-17	12:26:15	06:16:06	0.261	roa/radeonvii	340000607	EE 68250000	20.07%; 4056 us/it; ETA 12d 18:11;	cce3c5d3387da3a9 (check 2.18s)	18	errors 960				
2021-03-17	13:24:25	00:58:10	0.040	roa/radeonvii	340000607	EE 69050000	20.31%; 4053 us/it; ETA 12d 17:03;	7cb6da12e3f93b59 (check 2.17s)	19	errors 960				
2021-03-17	15:41:39	02:17:14	0.095	roa/radeonvii	340000607	EE 71000000	20.88%; 4019 us/it; ETA 12d 12:19;	0000000000000000 (check 2.07s)	20	errors 950				
2021-03-17	23:13:03	07:31:24	0.313	roa/radeonvii	340000607	EE 77500000	22.79%; 4088 us/it; ETA 12d 10:07;	f161e983e4e411a6 (check 2.21s)	21	errors 940				
2021-03-18	04:45:07	05:32:04	0.231	roa/radeonvii	340000607	EE 82250000	24.19%; 4110 us/it; ETA 12d 06:16;	19ad2a9ebffd9a6a (check 2.19s)	22	errors 930				
2021-03-18	05:40:34	00:55:27	0.039	roa/radeonvii	340000607	EE 83000000	24.41%; 4108 us/it; ETA 12d 05:16;	0000000000000000 (check 2.20s)	23	errors 930				
2021-03-18	05:54:29	00:13:55	0.010	roa/radeonvii	340000607	EE 83150000	24.46%; 4108 us/it; ETA 12d 05:06;	e21afb44714129b (check 2.17s)	24	errors 930				
2021-03-18	13:26:42	07:32:13	0.314	roa/radeonvii	340000607	EE 89600000	26.35%; 4100 us/it; ETA 11d 21:12;	0000000000000000 (check 2.19s)	25	errors 920				
2021-03-18	21:30:07	08:03:25	0.336	roa/radeonvii	340000607	EE 96500000	28.38%; 4140 us/it; ETA 11d 16:01;	3a397a709767f8b4 (check 2.24s)	26	errors 920				
2021-03-19	11:41:56	14:11:49	0.592	roa/radeonvii	340000607	EE 108600000	31.94%; 4159 us/it; ETA 11d 03:19;	69d97159178a915c (check 2.25s)	27	errors 920				
2021-03-19	13:44:39	02:02:43	0.085	roa/radeonvii	340000607	EE 110300000	32.44%; 4156 us/it; ETA 11d 01:10;	bed66bfc267390c1 (check 2.26s)	28	errors 910				
2021-03-20	21:29:22	31:44:43	1.323	roa/radeonvii	340000607	EE 136500000	40.15%; 4113 us/it; ETA 9d 16:31;	6d06f7bf717d3365 (check 2.21s)	29	errors 900				
2021-03-21	09:20:07	11:50:45	0.494	roa/radeonvii	340000607	EE 146750000	43.16%; 4096 us/it; ETA 9d 03:52;	4378818f499882b7 (check 2.22s)	30	errors 900				
2021-03-21	09:51:13	00:31:06	0.022	roa/radeonvii	340000607	EE 147150000	43.28%; 4088 us/it; ETA 9d 03:01;	3dd4aabdc2a5293a (check 2.31s)	31	errors 900				
2021-03-21	19:51:01	09:59:48	0.417	roa/radeonvii	340000607	EE 155650000	45.78%; 4350 us/it; ETA 9d 06:46;	bf4c1d5a3f9442d7 (check 2.26s)	32	errors 900				
2021-03-22	16:50:04	20:59:03	0.874	roa/radeonvii	340000607	EE 173550000	51.04%; 4166 us/it; ETA 8d 00:37;	d40b7ae1d4c3db36 (check 2.24s)	33	errors 900				
2021-03-23	02:53:33	10:03:29	0.419	roa/radeonvii	340000607	EE 182150000	53.57%; 4085 us/it; ETA 7d 11:08;	c989797b614ad33b (check 2.23s)	34	errors 900				
2021-03-23	05:04:34	02:11:01	0.091	roa/radeonvii	340000607	EE 184000000	54.12%; 4087 us/it; ETA 7d 09:07;	1a139bb167cd760d (check 2.22s)	35	errors 900				
2021-03-24	15:08:20	34:03:46	1.419	roa/radeonvii	340000607	EE 212560000	62.52%; 4109 us/it; ETA 6d 01:27;	29d554a67cb91bdc (check 2.24s)	36	errors 890				
2021-03-24	15:47:51	00:39:31	0.027	roa/radeonvii	340000607	EE 213100000	62.68%; 4085 us/it; ETA 5d 23:59;	0000000000000000 (check 2.32s)	37	errors 890				
2021-03-25	21:50:23	30:02:32	1.252	roa/radeonvii	340000607	EE 238440000	70.13%; 4189 us/it; ETA 4d 22:11;	dbf6ce46027339f6 (check 2.27s)	38	errors 890				
2021-03-27	06:32:20	32:41:57	1.362	roa/radeonvii	340000607	EE 262140000	77.10%; 4181 us/it; ETA 3d 18:25;	e998ddb459ec5034 (check 2.27s)	39	errors 890				
2021-03-28	05:19:01	22:46:41	0.949	roa/radeonvii	340000607	EE 281220000	82.71%; 4111 us/it; ETA 2d 19:07;	a9d293ae4316d501 (check 2.23s)	40	errors 890				
2021-03-30	18:26:58	61:07:57	2.547	roa/radeonvii	340000607	EE 332360000	97.75%; 4129 us/it; ETA 0d 08:46;	8a8d696037aec613 (check 2.23s)	41	errors 880				
2021-03-31	03:35:37	09:08:39	0.381	time of completion										
max	61:07:57	2.547	Zero residues and seemingly random residues hint at multiple error mechanisms											
min	00:13:55	0.010	5 zeros 37 random 11.9% zero residues on error											
std dev	12:26:42	0.519	88.1% seemingly random residues on error											
average	09:35:46	0.400	9.596 hours											

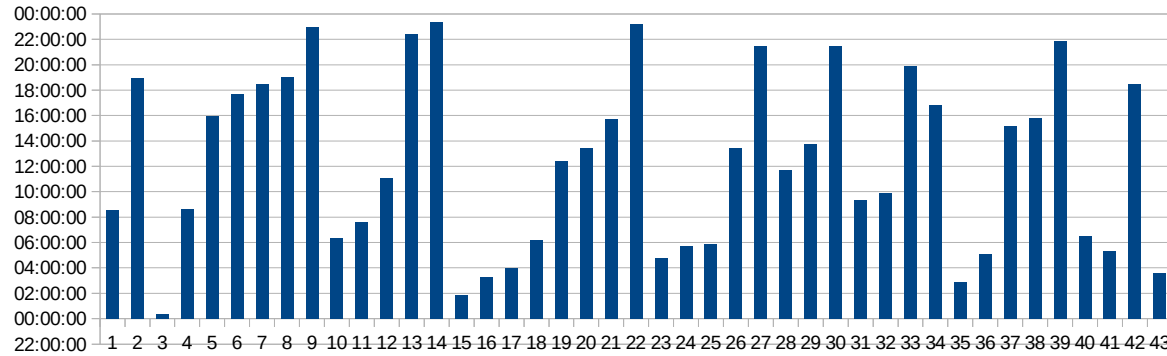
Why might time of day have been a factor, prompting a check for variation?
 Diurnal variations in environmental temperature, humidity, or utility voltage; background radiation, etc.
 Scheduled system activities
 User activity

<https://www.fourmilab.ch/documents/cosmic/>

Only ~4%, hard to resolve with few samples
 (But few error samples is a good thing!)

Wf

Local time of day of M340M EE occurrences



time of day	count/timebin	#/6hrbin
0-2	2	0-6
2-4	4	
4-6	5	
6-8	4	6-12
8-10	4	
10-12	2	
12-14	4	12-18
14-16	4	
16-18	2	
18-20	5	18-24
20-22	3	
22-24	4	
total check	43	43
Expected / bin	3.583	10.75

There's no time of day correlation apparent.

red line below is 5-point moving average

