Memory RAS

Metrics List & Descriptions:

Technology /Category	Metric/Feature Name	Date Type	Format Example	Collectd Release	Internal Collectd Version	Collectd Plugin	Description	Dependencies	Limitations	Comments
Memory RAS	Memory corrected errors	Int	51522	5.8	None	mcelog	Number of Corrected memory errors since the system boot			gets metrics from mcelog daemon.
Memory RAS	Memory corrected errors in 24 Hours	Int	51522	5.8	None	mcelog	Number of Corrected memory errors since previous 24 hours			gets metrics from mcelog daemon.
Memory RAS	Memory Uncorrected errors	Int	51522	5.8	None	mcelog	Number of Corrected memory errors since the system boot			gets metrics from mcelog daemon.
Memory RAS	Memory Uncorrected errors in 24 Hours	Int	51522	5.8	None	mcelog	Number of Corrected memory errors since previous 24 hours			gets metrics from mcelog daemon.
Memory RAS	Socket	Int	0	5.8	None	mcelog	Socker number error occurred on			gets metrics from mcelog daemon.
Memory RAS	Channel	Char	0	5.8	None	mcelog	Memory channel each channel represents a DIMM module			gets metrics from mcelog daemon.
Memory RAS	Memory DIMM	Char	B1	5.8	None	mcelog	Memory DIMM corresponding the memory used by the cores errors occurred on			gets metrics from mcelog daemon.
Memory RAS	Memory Slot	Char	1	5.8	None	mcelog	Memory slot corresponding the memory used by the cores errors occurred on			gets metrics from mcelog daemon.
Memory RAS	CPU ID	Int	0	Future	Future	EDAC	CPU ID of the cores errors occurred on. Will be added to new EDAC plugin			
Memory RAS	Memory Page	Hex	0x12345	Future	Future	EDAC	Memory page corresponding the memory used by the cores errors occurred on. Will be added to new EDAC plugin			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Memory Offset	Hex	0x0	Future	Future	EDAC	Memory offset in the page. Will be added to new EDAC plugin			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Memory Row	Hex	0x12345							Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Memory Grain	Int	8	Future	Future	EDAC	The byte granularity or the error grain. Will be added to new EDAC plugin			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Error Syndrome	Hex	0x6ce3	Future	Future	EDAC	Memory syndrome corresponding the memory used by the cores errors occurred on. Will be added to new EDAC plugin			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Error Type	Text		Future	Future	EDAC	Error type. Will be added to new EDAC plugin			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Error code	Integer	0101: 0090	Future	Future	EDAC	Error code put out by EDAC. Will be added to new EDAC plugin			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	Logging	Log path		?		EDAC	Configurable logging path			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	dimmX or rankX directory info	Varying		Future	Future	EDAC	Expose interface files provided by sysfs through mcX /dimmX or rankX directories			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	csrowX directory info	Varying		Future	Future	EDAC	Expose interface files provided by sysfs through mcX /csrowX directories			Not part of Collectd. Currently available with kernel EDAC logs
Memory RAS	RAS interrupts	Count on each core	[CoreID]: [Interrupt Cont]	Future	Future	EDAC	Expose the RAS related interrupts on cores of interest via Collectd			Discussion open to see if this info can be exposed through the plugin.

Sub-sections:

RAS/mcelog Plugin High Level Design

Memory RAS Plugin Executed Tests

RAS Other Executed Tests