

Demo title: DDR3 Memory Row Hammer Failures Revealed

Description: DDR3 memory is at the heart of almost all cloud computing servers today. A recently publicized failure mechanism in DDR3 memory, coined Row Hammer, has been shown to not only be a reliability issue but also a security risk. No industry standards group, government agency or trade association has signed up to address this issue. Data Centers and end users are on their own. This demo will show the actual failures running on a live DDR3 based target. The DDR Detective® DDR Protocol Analyzer has been repurposed to count ACTIVATE commands to unique row addresses, which is the cause of Row Hammer failures. This demo will show this test tool flagging the excessive activate commands thus proving that the software running has the potential to create these failures.

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