AMD Milan RAS:

在合入相关 patch 后，MCA Recovery 功能基本可用，但仍非常不完善；需后续请系统部跟进厂家 BIOS 和 AMD，我们持续

跟进社区进展；

目前遗留问题(BIOS 和 CPU 强相关):

1.注入一个错误后，会同时触发多个 UE 错误，其中一个 Defer error 和注错地址不相干，目前不会影响测试，实际线上影响未知；

AMD Reply: There are two errors reported. One is from the UMC (memory controller) and the other is from the Load Store unit in the core. The address given in MCA is not architecturally defined, and it will be different between different MCA bank types and error codes. In the cases below, the Load Store unit logs a system physical address, and this should match what is used in the error injection. The UMC will log a "normalized" address which is the address of the memory from the view of the UMC and it may be different from the address used by the system.

2.IFU 测试 Fail，影响了一个场景的内存 UE 故障恢复，会直接 panic；

AMD Reply: We have a slight difference in behavior between Intel and AMD, Currently the behavior is what observed in place. There is a AMD internal ticket tracking the issue, Bear has watched the ticket and will continue sync the progress once there is a update.

AMD suggested patches:

dcd01394ce7c	v5.6-rc1	C84 包含
b3f79ae45904	v5.6-rc1	C84 包含
9f6aef86315a	v5.6-rc1	C84 包含
89a76171bf50	v5.6-rc1	C84 包含
2eb61c91c3e2	v5.6-rc1	C84 包含
dc7a8476cffc	v5.10	ksyun applied
368d1887200d	v5.10	ksyun applied
dc0592b73715	v5.10	No

Ksyun private patch for c84：

0001-Patitially-Revert-commit-0d00449c7a28a-x86-Replace-i.patch

HWPOSION

- Before Test hwpoison, apply the listed Patch:

- Function test

  ./run_hard.sh

  Result: Num of Executed Test Case: 4   Num of Failed Case: 0

run_soft.sh

Result: Num of Executed Test Case: 3   Num of Failed Case: 0

2. core_recovery

runtest_dcu.sh pass

runtest_ifu.sh

Fail, 可能是 bios bug 也可能是芯片 bug，不解决;

3. Stress Test

环境不支持

CE Edac

No support