Intel LAM (Linear Address Masking) Extension allows software to locate metadata in data pointers and dereference them without needing to mask the metadata bits. It supports:

- LAM_U57: Activate LAM for user data pointers and use of bits 62:57 as masked metadata.

I am presenting a proposal to enable Intel LAM in Linux:

1. Only LAM enabled Linux on LAM processors can provide LAM features.
2. Every piece of OS must be LAM enabled, starting from kernel, toolchain, libraries, ...
3. A binary is LAM enabled only if all its components are LAM enabled.
4. LAM enabled OS is backward compatible. The same LAM-enabled OS binary can run on LAM and legacy processors.
5. Provide LAM features only on LAM processors.

I agree to abide by the anti-harassment policy
I agree

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