**# Title:**

SPM in SRAT

**# Status:**

Draft

**# Document:**

ACPI Specification Version 6.next

**# License:**

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**# Submitter:**

* Scott Lee (Microsoft)
* TianoCore Community (<https://www.tianocore.org>)

**# Summary of the change**

This ECN proposes a modification to the SRAT to allow an OS or hypervisor to discover Specific Purpose Memory through an ACPI table. Currently, information about Specific Purpose Memory (see UEFI Specification for definition of Specific Purpose Memory) on a system is available only through UEFI memory map. There may be OSes or hypervisors that need to discover this information through an ACPI table-based mechanism. The ECN follows the previous precedent set by the NonVolatile attribute to report attributes of a memory range in SRAT.

**# Benefits of the change**

Enables OS or hypervisor to discover Specific Purpose Memory through SRAT.

**# Impact of the change**

Platforms firmware will have to be modified to support the extended SRAT if there is Specific Purpose Memory on a system. Likewise, operating system or hypervisor that desires to use this mechanism will require new code to support the extended SRAT.

**# Detailed description of the change [normative updates]**

Existing text

New text

~~Deleted Text~~

**5.2.x. System Resource Affinity Table (SRAT)**

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**5.2.X.x. Memory Affinity Structure**

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**Table 5.y:** Flags - Memory Affinity Structure

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Bit Length** | **Bit Offset** | **Description** |
| … | … | … | … |
| Specific-Purpose | 1 | 3 | Indicates whether this memory is intended for specific-purpose usage. This field is functionally analogous to the UEFI EFI\_MEMORY\_SP attribute. See the UEFI specification for more details on this attribute. |
| *Reserved* | 28~~29~~ | 4~~3~~ | Must be zero. |

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