

ACPI Upstreaming

Status Update

Current Status

- Numerous ACPI core patches already accepted. (cleanups and re-factoring)
- Current patch series at v4 and gaining appropriate Acks from maintainers.
- General feeling that code is heading in correct direction.

Patch Series

ARM64: Move the init of `cpu_logical_map(0)` before `unflatten_device_tree()`

ACPI / table: Add new function to get table entries

ACPI / table: Count matched and successfully parsed entries without specifying max entries

ARM64 / ACPI: Get RSDP and ACPI boot-time tables

ARM64 / ACPI: Introduce `sleep-arm.c`

ARM64 / ACPI: Introduce `early_param` for "acpi"

ARM64 / ACPI: If we chose to boot from acpi then disable FDT

ARM64 / ACPI: Make PCI optional for ACPI on ARM64

ARM64 / ACPI: Parse FADT table to get PSCI flags for PSCI init

Patch Series 2

ACPI / table: Print GIC information when MADT is parsed

ARM64 / ACPI: Parse MADT for SMP initialization

ACPI / processor: Make it possible to get CPU hardware ID via GICC

ARM64 / ACPI: Introduce ACPI_IRQ_MODEL_GIC and register device's gsi

ARM64 / ACPI: Add GICv2 specific ACPI boot support

ARM64 / ACPI: Parse GTDT to initialize arch timer

ARM64 / ACPI: Select ACPI_REDUCED_HARDWARE_ONLY if ACPI is enabled on ARM64

ARM64 / ACPI: Enable ARM64 in Kconfig

Documentation: ACPI for ARM64

What Now

- bigger “process” issues still to work over.
- Requirement for a test suite as in ARM server de facto “does it boot windows” not available.
- How do we handle _OSI for different generations of hardware/OS
- Reference platform to be defined.

What Now 2

- Discussion over `_DSD` usage is on-going and needs to reach conclusion.