
TLBI PAALL, TLB Invalidate GPT Information by PA, All Entries, Local

The TLBI PAALL characteristics are:

Purpose

Invalidates cached copies of GPT entries from TLBs. Details:

- The invalidation applies to TLB entries containing GPT information that relates to a physical address.
- The invalidation applies to all TLB entries containing GPT information.
- The invalidation affects only the TLBs for the PE executing the operation.

The full set of TLB maintenance instructions that invalidate cached GPT entries is: [TLBI PAALL](#), [TLBI PAALLOS](#), [TLBI RPALOS](#), and [TLBI RPAOS](#).

These instructions have the same ordering, observability, and completion behavior as all other TLBI instructions.

Configuration

This instruction is present only when FEAT_RME is implemented. Otherwise, direct accesses to TLBI PAALL are undefined.

Attributes

TLBI PAALL is a 64-bit System instruction.

Field descriptions

This instruction has no applicable fields.

The value in the register specified by <Xt> is ignored.

Executing TLBI PAALL

Accesses to this instruction use the following encodings in the System instruction encoding space:

TLBI PAALL{, <Xt>}

op0	op1	CRn	CRm	op2
0b01	0b110	0b1000	0b0111	0b100

```
if PSTATE.EL == EL0 then
    UNDEFINED;
elsif PSTATE.EL == EL1 then
    UNDEFINED;
elsif PSTATE.EL == EL2 then
    UNDEFINED;
elsif PSTATE.EL == EL3 then
    AArch64.TLBI_PAALL(Shareability_NSH);
```

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