## Page Table Entry

Bit(s)	Field Name	Description
63:48		Reserved
47:16	ADDR	L2 Entry Gives the address of a level 3 table.  L3 Entry Gives bits [47:16] of the output address for a page of memory.
15:11		
10	AF	Access flag. Indicates when a page or section of memory is accessed for the first time.
9:8	SH	Shareability field. 00 : Non-shareable 01 : Reserved 10 : Outer Shareable 11 : Inner Shareable
7:6	AP	Data access permission bits 00 : Kernel Read/Wirte 01 : User Read/Write 10 : Kerenl Read-only 11 : User Read-only
5	NS	Non-secure bit
4:2	ATTR	Memory region attributes 000 : Normal memory 001 : Device memory 010 : Non-cacheable
1	TYPE	L2 Entry If 0, the descriptor gives the base address of a block of memory, and the attributes for that memory region If 1, the descriptor gives the address of the next level of translation table, and some attributes for that translation  L3 Entry If 0, behaves identically to invalid bit[0] set to 0. If 1, gives the address of page of memory
0	VALID	Identifies whether the descriptor is valid. If a lookup returns an invalid descriptor, the associated input address is unmapped, and any attempt to access it generates a translation fault.  0: Invalid  1: Valid