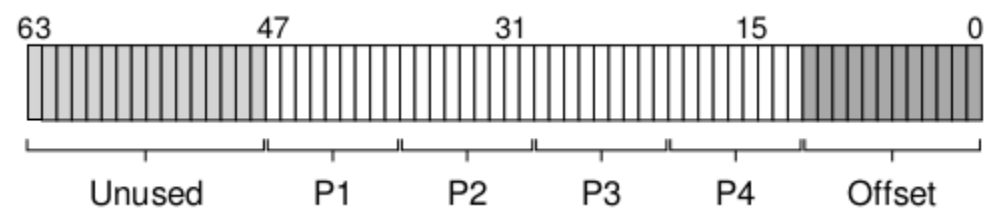


3. Linux 64-bit Address Space

Virtual Address:



See [Opteron Page Tables](#)

From <https://unix.stackexchange.com/questions/509607/how-a-64-bit-process-virtual-address-space-is-divided-in-linux>:

Start addr	Offset	End addr	Size	VM area description
0000000000000000	0	00007fffffffffff	128 TB	user-space virtual memory
0000800000000000	+128 TB	ffff7fffffffffff	~16M TB	non-canonical
ffff800000000000	-128 TB	ffffffffffffffff	128 TB	kernel-space virtual memory

lower 48 bits actually used, "canonical" means top 16 bits must be copies of bit 47