

The Four Main Linux Segments

Every process in Linux has these 4 segments

Segment	Base	G	Limit	S	Type	DPL	D/B	P
user code	0x00000000	1	0xffffffff	1	10	3	1	1
user data	0x00000000	1	0xffffffff	1	2	3	1	1
kernel code	0x00000000	1	0xffffffff	1	10	0	1	1
kernel data	0x00000000	1	0xffffffff	1	2	0	1	1

All linear addresses start at 0, end at 4G-1

- ▶ All processes share the same set of linear addresses
- ▶ Logical addresses coincide with linear addresses