|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DATA TYPE | SIGNED/  UNSIGNED | RANGE IN TERMS OF POWER 2 | | FORMAT SPECIFIER | |
| Short int | **signed** | | **-2^15to(2^15)-1** | | **%hd or %hi** |
|  | **unsigned** | | **0 to(2^16)-1** | | **%hu** |
| int | **signed** | | **-2^31to(2^31)-1** | | **%d or %i** |
|  | **unsigned** | | **0 to (2^32)-1** | | **%u** |
| Long int | **signed** | | **-2^31to(2^31)-1** | | **%ld or %li** |
|  | **unsigned** | | **0 to (2^32)-1** | | **%lu** |
| Long long int | **signed**  unsigned | | **-2^63 to(2^63)-1**  0 to (2^64)-1 | | **%lld or %lli**  **%llu** |