|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Format** | **C Type** | **Python type** | **Standard size** | **Notes** |
| x | pad byte | no value |  |  |
| c | char | bytes of length 1 | 1 |  |
| b | signed char | integer | 1 | (1), (2) |
| B | unsigned char | integer | 1 | (2) |
| ? | \_Bool | bool | 1 | (1) |
| h | short | integer | 2 | (2) |
| H | unsigned short | integer | 2 | (2) |
| i | int | integer | 4 | (2) |
| I | unsigned int | integer | 4 | (2) |
| l | long | integer | 4 | (2) |
| L | unsigned long | integer | 4 | (2) |
| q | long long | integer | 8 | (2) |
| Q | unsigned long long | integer | 8 | (2) |
| n | ssize\_t | integer |  | (3) |
| N | size\_t | integer |  | (3) |
| e | (6) | float | 2 | (4) |
| f | float | float | 4 | (4) |
| d | double | float | 8 | (4) |
| s | char[] | bytes |  |  |
| p | char[] | bytes |  |  |
| P | void\* | integer |  | (5) |

<https://docs.python.org/3/library/struct.html>