|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variables** | **Storage Section** | **Initial Value** | **Scope** | **Persistence** | **Miscell Properties** |
| **Global initialized** | Data | NA | Whole  program | Process |  |
| **Global un-initialized** | BSS | 0 | Whole  program | Process |  |
| **Local initialized** | Stack | NA | Block | Block |  |
| **Local un-initialized** | Stack | Garbage | Block | Block |  |
| **Global static initialized** | Data | NA | File | Process |  |
| **Global static un-initialized** | BSS | 0 | File | Process |  |
| **Local static initialized** | Data | NA | Block | Process |  |
| **Local static un-initialized** | BSS | 0 | Block | Process |  |
| **Constants** | text | NA | Block | Block |  |
| **Command line arguments** | text | NA | Block | Block |  |
| **Dynamically allocated (malloc)** | heap | Garbage | Whole  program | Process |  |
| **Dynamically allocated (calloc)** | heap | 0 | Whole program | Process |  |
| **Automatic** | stack | Garbage | Block | Block |  |
| **Volatile** | stack | Garbage | Block | Block | Only local variables |
| **Register** | stack | Garbage | Block | Block | Only local variables  Address can't printed |
| **Extern** | NA | No init | Block | Process | Only Global variables  Can be added to header files |