



Default max permissions:  
For a File linux operating system is 666, because Linux dont want to have execute permission on a File by default due to security reasons  
  
For Folder linux operation system is 777, because (execute permission) on a folder is cd (change directory)

The umask variable value of a user is being used to derive the default permission that is assigned to a File or Folder as below

For a file  
1. Take the umask variable value of an user  
max permission: 666  
normal user : 0002  

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0664 = rw-rw-r--  

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For a folder  
max permission: 777  
normal user (umask):0002  

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0775 = rwxrwxr-x  

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The first '0' in the umask indicates the number is an octal number

For a root user the umask: 0022, so the default permissions assigned to a File or Folder when a root creates is different than normal user

File default permissions:  
File Max Permission: 666  
Root UMask : 0022  

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0644 = rw-r--r--  

---

Folder Max permission: 777  
Root UMask : 0022  

---

0755 = rwxr-xr-x  

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How to know what is the umask value of a user?  
umask  
used for printing the default umask value for an user