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| **TASK: CALCULATING THE FINAL PERMISSION FOR FILES**  You can simply subtract the umask from the base permissions to determine the final permission for file as follows: 666 – 022 = 644   * File base default permissions : 666 * umask value : 022 * subtract to get permissions of new file (666-022) : 644 (rw-r–r–)   **TASK: CALCULATING THE FINAL PERMISSION FOR DIRECTORIES**  You can simply subtract the umask from the base permissions to determine the final permission for directory as follows: 777 – 022 = 755   * Directory base default permissions : 777 * umask value : 022 * Subtract to get permissions of new directory (777-022) : 755 (rwxr-xr-x) |

<https://www.cyberciti.biz/tips/understanding-linux-unix-umask-value-usage.html>

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| Example:   1. The default  **umask 002** used for normal user. With this mask default directory permissions are 775 and default file permissions are 664. 2. The default  **umask for the root user is 022** result into default directory permissions are 755 and default file permissions are 644. 3. For directories, the **base permissions** are (rwxrwxrwx) 0777 and for files they are 0666 (rw-rw-rw). |