

Homework 5

Download the <http://meop3.troja.mff.cuni.cz:8010/linux/materials/text.tar.gz> file (in command line: 'wget http://...').

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- 1 Cut out the ages column from the "names_ages" file without the header using cut (NOT AWK!!!) and sort (hint: tr)
- 2 Using bc, calculate the sum of the numbers for each line in "numbers" file (hint: use also "tr")
- 3 With a one line command, calculate the wind speed for wind components u,v (perpendicular to each other) for each line of file wind, do it two ways: a) only with awk, and b) combining awk and calc
- 4 Write a command that tells whether a year is leap year or not using "date" on one line using command chaining (with logical meaning)
- 5 Write out what date and time will be 1000 days, 10000 hours, 100000 minutes 1000000 seconds after 2022-11-26 13:00 - write the result in YYYYMMDD HH:MM:SS format (YYYY-year, MM-month, DD-day, HH-hour, MM-minute, SS-second)
- 6 Convert the binary number 11011001000000111000 to Octal number using bc
- 7 Use "find" and write a command that writes out the total(!) size (du ..) of files belonging to user "user" that is "executable" (x permission) for the user and is at least 10kbyte in size (hint: I do not want exact permissions for user (so not u=x), but user should have at least x, check:

<https://ostechnix.com/find-files-based-permissions/>; then use exec

