THE TOPIC OF A COMPETITION PROMOTING STUDENT ENGAGEMENT IN SCIENTIFIC ACTIVITIES

Topic: Finding very large prime numbers
Goal: Find a prime number that has at least 100 000 digits
Short description: The student will work with Mersenne Primes. Mersenne prime is a prime number that is one less than a power of two. There are efficient algorithms for finding such numbers. The student will have to learn to apply these algorithms using parallel calculations. A good result of the work can be considered finding a prime number with a number of digits not less than 100 000.
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