

Largest prime factor

The prime factors of 13195 are 5, 7, 13 and 29.

What is the largest prime factor of the number 600851475143 ?

Solution

Entering the number 600 851 475 143 into the accompanying C program results in the following prime factorization.

$$600\,851\,475\,143 = 71 \times 839 \times 1471 \times 6857$$

Therefore, the largest prime factor is 6857.