# Number Field Sieve

An extremely fast factorization method developed by Pollard which was used to factor the RSA-130 number. This method is the most powerful known for factoring general numbers, and has complexity

$$O\{\exp[c(\log n)^{1/3}(\log\log n)^{2/3}]\},$$
 (1)

reducing the *exponent* over the continued fraction factorization algorithm and quadratic sieve. There are three values of  $_{\mathcal{C}}$  relevant to different flavors of the method (Pomerance 1996). For the "special" case of the algorithm applied to numbers near a large power,

$$c = \left(\frac{32}{9}\right)^{1/3} = 1.526285 \dots,$$
 (2)

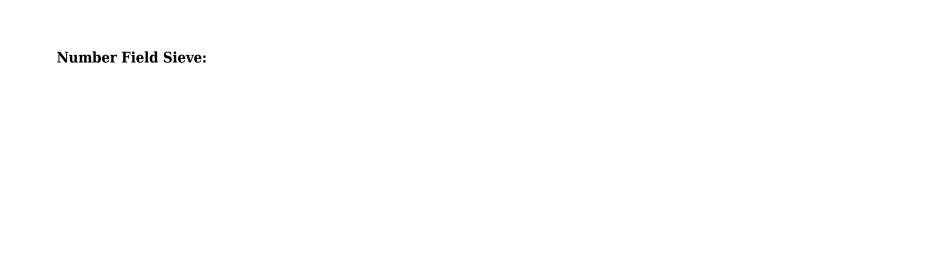
for the "general" case applicable to any odd positive number which is not a power,

$$c = \left(\frac{64}{9}\right)^{1/3} = 1.922999...,$$
 (3)

and for a version using many polynomials (Coppersmith 1993),

# **Number Field Sieve**

**M Woodhall** 



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