

The security of RSA

RSA Labs Challenge : factoring primes set

Key length	Year	Time
140	1999	1 month
155	1999	4 months
160	2003	20 days
200	2005	18 months
768	2009	3 years

Challenges are no longer active

Key length and Key n-bit security

- RSA has very long keys, 1024, 2048 and 4096 are common
- Is it more secure than asymmetric crypto with key lengths of 56, 128, 192, 256 ?

➔ Key lengths **do not compare !**

RSA Key length	Effective key length
1,024	80
2,048	112
3,072	128
7,680	192
15,360	256