

$c = a + b$	<code>mp_add(&a, &b, &c)</code>	$b = 2a$	<code>mp_mul_2(&a, &b)</code>
$c = a - b$	<code>mp_sub(&a, &b, &c)</code>	$b = a/2$	<code>mp_div_2(&a, &b)</code>
$c = ab$	<code>mp_mul(&a, &b, &c)</code>	$c = 2^b a$	<code>mp_mul_2d(&a, b, &c)</code>
$b = a^2$	<code>mp_sqr(&a, &b)</code>	$c = a/2^b, d = a \bmod 2^b$	<code>mp_div_2d(&a, b, &c, &d)</code>
$c = \lfloor a/b \rfloor, d = a \bmod b$	<code>mp_div(&a, &b, &c, &d)</code>	$c = a \bmod 2^b$	<code>mp_mod_2d(&a, b, &c)</code>
$a = b$	<code>mp_set_int(&a, b)</code>	$c = a \vee b$	<code>mp_or(&a, &b, &c)</code>
$b = a$	<code>mp_copy(&a, &b)</code>	$c = a \wedge b$	<code>mp_and(&a, &b, &c)</code>
		$c = a \oplus b$	<code>mp_xor(&a, &b, &c)</code>
$b = -a$	<code>mp_neg(&a, &b)</code>	$d = a + b \bmod c$	<code>mp_addmod(&a, &b, &c, &d)</code>
$b = a $	<code>mp_abs(&a, &b)</code>	$d = a - b \bmod c$	<code>mp_submod(&a, &b, &c, &d)</code>
Compare a and b	<code>mp_cmp(&a, &b)</code>	$d = ab \bmod c$	<code>mp_mulmod(&a, &b, &c, &d)</code>
Is Zero?	<code>mp_iszero(&a)</code>	$c = a^2 \bmod b$	<code>mp_sqrmod(&a, &b, &c)</code>
Is Even?	<code>mp_iseven(&a)</code>	$c = a^{-1} \bmod b$	<code>mp_invmod(&a, &b, &c)</code>
Is Odd?	<code>mp_isodd(&a)</code>	$d = a^b \bmod c$	<code>mp_exptmod(&a, &b, &c, &d)</code>
$\ a\ $	<code>mp_unsigned_bin_size(&a)</code>	$res = 1$ if a prime to t rounds?	<code>mp_prime_is_prime(&a, t, &res)</code>
$buf \leftarrow a$	<code>mp_to_unsigned_bin(&a, buf)</code>	Next prime after a to t rounds.	<code>mp_prime_next_prime(&a, t)</code>
$a \leftarrow buf[0..len - 1]$	<code>mp_read_unsigned_bin(&a, buf, len)</code>		
$b = \sqrt{a}$	<code>mp_sqrt(&a, &b)</code>	$c = \gcd(a, b)$	<code>mp_gcd(&a, &b, &c)</code>
$c = a^{1/b}$	<code>mp_n_root(&a, b, &c)</code>	$c = \text{lcm}(a, b)$	<code>mp_lcm(&a, &b, &c)</code>
Greater Than	<code>MP_GT</code>	Equal To	<code>MP_EQ</code>
Less Than	<code>MP_LT</code>	Bits per digit	<code>DIGIT_BIT</code>