

## NAG Library Chapter Contents

### x02 – Machine Constants

x02 Chapter Introduction – a description of the Chapter and an overview of the algorithms available

Function Name	Mark of Introduction	Purpose
X02AHC	1	nag_max_sine_argument The largest permissible argument for sin and cos
X02AJC	1	nag_machine_precision The machine precision
X02AKC	1	nag_real_smallest_number The smallest positive model number
X02ALC	1	nag_real_largest_number The largest positive model number
X02AMC	1	nag_real_safe_small_number Safe range of floating-point arithmetic
X02ANC	6	nag_complex_safe_small_number Safe range of NAG complex floating-point arithmetic
X02BBC	1	nag_max_integer The largest representable integer
X02BEC	1	nag_decimal_digits The maximum number of decimal digits that can be represented
X02BHC	1	nag_real_base Parameter $b$ of model of floating-point arithmetic
X02BJC	1	nag_real_base_digits Parameter $p$ of model of floating-point arithmetic
X02BKC	1	nag_real_min_exponent Parameter $e_{\min}$ of model of floating-point arithmetic
X02BLC	1	nag_real_max_exponent Parameter $e_{\max}$ of model of floating-point arithmetic

---