

MAGMA_MORSE

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Chapter 1

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Chapter 2

Data Type Documentation

2.1 `morse::free_c` Interface Reference

Public Member Functions

- subroutine `free_c` (ptr)

2.2 `measure_s` Struct Reference

Data Fields

- double `sum`
- double `sum2`
- long `n`

2.3 `morse` Module Reference

Data Types

- interface `free_c`
- interface `MORSE_Dealloc_Handle_c`
- interface `MORSE_Dealloc_Handle_Tile_c`
- interface `morse_desc_create`
- interface `MORSE_Desc_Create_c`
- interface `MORSE_Desc_Destroy_c`
- interface `MORSE_Disable_c`
- interface `MORSE_Enable_c`
- interface `MORSE_Finalize_c`
- interface `MORSE_Get_c`
- interface `MORSE_Init_Affinity_c`
- interface `MORSE_Init_c`
- interface `morse_lapack_to_tile`
- interface `MORSE_Lapack_to_Tile_c`
- interface `MORSE_Sequence_Create_c`
- interface `MORSE_Sequence_Destroy_c`
- interface `MORSE_Sequence_Flush_c`
- interface `MORSE_Sequence_Wait_c`

- interface [MORSE_Set_c](#)
- interface [morse_tile_to_lapack](#)
- interface [MORSE_Tile_to_Lapack_c](#)
- interface [MORSE_Version_c](#)

Public Member Functions

- subroutine **morse_init** (ncores, info)
- subroutine **morse_finalize** (info)
- subroutine **morse_set** (param, pval, info)
- subroutine **morse_get** (param, pval, info)
- subroutine **morse_enable** (param, info)
- subroutine **morse_disable** (param, info)
- subroutine **morse_lapack_to_tile_s** (a_lpk, lda, a_pma, info)
- subroutine **morse_lapack_to_tile_d** (a_lpk, lda, a_pma, info)
- subroutine **morse_lapack_to_tile_cpx** (a_lpk, lda, a_pma, info)
- subroutine **morse_lapack_to_tile_z** (a_lpk, lda, a_pma, info)
- subroutine **morse_tile_to_lapack_s** (a_pma, a_lpk, lda, info)
- subroutine **morse_tile_to_lapack_d** (a_pma, a_lpk, lda, info)
- subroutine **morse_tile_to_lapack_cpx** (a_pma, a_lpk, lda, info)
- subroutine **morse_tile_to_lapack_z** (a_pma, a_lpk, lda, info)
- subroutine **morse_desc_create_s** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_create_d** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_create_cpx** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_create_z** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_destroy** (desc, info)
- subroutine **morse_free** (ptr)
- subroutine **morse_version** (ver_major, ver_minor, ver_micro, info)
- subroutine **morse_init_affinity** (cores, bindtab, info)
- subroutine **morse_dealloc_handle** (handle, info)
- subroutine **morse_dealloc_handle_tile** (desc, info)
- subroutine **morse_sequence_create** (sequence, info)
- subroutine **morse_sequence_destroy** (sequence, info)
- subroutine **morse_sequence_wait** (sequence, info)
- subroutine **morse_sequence_flush** (sequence, request, info)

Data Fields

- logical **morse_initialized** = .false.
- integer, parameter **sp** = kind(0.0)
- integer, parameter **dp** = kind(0.0d0)

2.4 morse_c::MORSE_Alloc_Workspace_cgebrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgebrd_c** (M, N, descT)

2.5 morse_c::MORSE_Alloc_Workspace_cggev_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cggev_c** (N, descT)

2.6 morse_c::MORSE_Alloc_Workspace_cgehrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgehrd_c** (N, descT)

2.7 morse_c::MORSE_Alloc_Workspace_cgelqf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgelqf_c** (M, N, T)

2.8 morse_c::MORSE_Alloc_Workspace_cgelqf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgelqf_tile_c** (M, N, descT)

2.9 morse_c::MORSE_Alloc_Workspace_cgels_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgels_c** (M, N, T)

2.10 morse_c::MORSE_Alloc_Workspace_cgels_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgels_tile_c** (M, N, descT)

2.11 morse_c::MORSE_Alloc_Workspace_cgeqrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgeqrf_c** (M, N, T)

2.12 morse_c::MORSE_Alloc_Workspace_cgeqrf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_cgeqrf_tile_c** (M, N, descT)

2.13 `morse_c::MORSE_Alloc_Workspace_cgesv_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cgesv_incpiv_c` (N, descL, IPIV)

2.14 `morse_c::MORSE_Alloc_Workspace_cgesv_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cgesv_incpiv_tile_c` (N, descL, IPIV)

2.15 `morse_c::MORSE_Alloc_Workspace_cgesvd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cgesvd_c` (M, N, descT)

2.16 `morse_c::MORSE_Alloc_Workspace_cgetrf_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cgetrf_incpiv_c` (M, N, descL, IPIV)

2.17 `morse_c::MORSE_Alloc_Workspace_cgetrf_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cgetrf_incpiv_tile_c` (N, descL, IPIV)

2.18 `morse_c::MORSE_Alloc_Workspace_cgetri_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cgetri_tile_async_c` (A, W)

2.19 `morse_c::MORSE_Alloc_Workspace_cheev_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_cheev_c` (M, N, descT)

2.20 `morse_c::MORSE_Alloc_Workspace_cheevd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_cheevd_c` (M, N, descT)

2.21 `morse_c::MORSE_Alloc_Workspace_chegv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_chegv_c` (M, N, descT)

2.22 `morse_c::MORSE_Alloc_Workspace_chegvd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_chegvd_c` (M, N, descT)

2.23 `morse_c::MORSE_Alloc_Workspace_chetrd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_chetrd_c` (M, N, descT)

2.24 `morse_d::MORSE_Alloc_Workspace_dgebrd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgebrd_c` (M, N, descT)

2.25 `morse_d::MORSE_Alloc_Workspace_dgeev_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgeev_c` (N, descT)

2.26 `morse_d::MORSE_Alloc_Workspace_dgehrd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgehrd_c` (N, descT)

2.27 `morse_d::MORSE_Alloc_Workspace_dgelqf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgelqf_c` (M, N, T)

2.28 `morse_d::MORSE_Alloc_Workspace_dgelqf_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgelqf_tile_c` (M, N, descT)

2.29 `morse_d::MORSE_Alloc_Workspace_dgels_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgels_c` (M, N, T)

2.30 `morse_d::MORSE_Alloc_Workspace_dgels_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgels_tile_c` (M, N, descT)

2.31 `morse_d::MORSE_Alloc_Workspace_dgeqrf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgeqrf_c` (M, N, T)

2.32 `morse_d::MORSE_Alloc_Workspace_dgeqrf_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgeqrf_tile_c` (M, N, descT)

2.33 `morse_d::MORSE_Alloc_Workspace_dgesv_incpiv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dgesv_incpiv_c` (N, descL, IPIV)

2.34 morse_d::MORSE_Alloc_Workspace_dgesv_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dgesv_incpiv_tile_c** (N, descL, IPIV)

2.35 morse_d::MORSE_Alloc_Workspace_dgesvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dgesvd_c** (M, N, descT)

2.36 morse_d::MORSE_Alloc_Workspace_dgetrf_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dgetrf_incpiv_c** (M, N, descL, IPIV)

2.37 morse_d::MORSE_Alloc_Workspace_dgetrf_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dgetrf_incpiv_tile_c** (N, descL, IPIV)

2.38 morse_d::MORSE_Alloc_Workspace_dgetri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dgetri_tile_async_c** (A, W)

2.39 morse_d::MORSE_Alloc_Workspace_dhegv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dhegv_c** (M, N, descT)

2.40 morse_d::MORSE_Alloc_Workspace_dsyev_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_dsyev_c** (M, N, descT)

2.41 `morse_d::MORSE_Alloc_Workspace_dsyevd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dsyevd_c` (M, N, descT)

2.42 `morse_d::MORSE_Alloc_Workspace_dsygvd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dsygvd_c` (M, N, descT)

2.43 `morse_d::MORSE_Alloc_Workspace_dsytrd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_dsytrd_c` (M, N, descT)

2.44 `morse_s::MORSE_Alloc_Workspace_sgebrd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgebrd_c` (M, N, descT)

2.45 `morse_s::MORSE_Alloc_Workspace_sgeev_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgeev_c` (N, descT)

2.46 `morse_s::MORSE_Alloc_Workspace_sgehrd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgehrd_c` (N, descT)

2.47 `morse_s::MORSE_Alloc_Workspace_sgelqf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgelqf_c` (M, N, T)

2.48 morse_s::MORSE_Alloc_Workspace_sgelqf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgelqf_tile_c** (M, N, descT)

2.49 morse_s::MORSE_Alloc_Workspace_sgels_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgels_c** (M, N, T)

2.50 morse_s::MORSE_Alloc_Workspace_sgels_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgels_tile_c** (M, N, descT)

2.51 morse_s::MORSE_Alloc_Workspace_sgeqrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgeqrf_c** (M, N, T)

2.52 morse_s::MORSE_Alloc_Workspace_sgeqrf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgeqrf_tile_c** (M, N, descT)

2.53 morse_s::MORSE_Alloc_Workspace_sgesv_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgesv_incpiv_c** (N, descL, IPIV)

2.54 morse_s::MORSE_Alloc_Workspace_sgesv_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_sgesv_incpiv_tile_c** (N, descL, IPIV)

2.55 `morse_s::MORSE_Alloc_Workspace_sgesvd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgesvd_c` (M, N, descT)

2.56 `morse_s::MORSE_Alloc_Workspace_sgetrf_incpiv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgetrf_incpiv_c` (M, N, descL, IPIV)

2.57 `morse_s::MORSE_Alloc_Workspace_sgetrf_incpiv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgetrf_incpiv_tile_c` (N, descL, IPIV)

2.58 `morse_s::MORSE_Alloc_Workspace_sgetri_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_sgetri_tile_async_c` (A, W)

2.59 `morse_s::MORSE_Alloc_Workspace_shegv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_shegv_c` (M, N, descT)

2.60 `morse_s::MORSE_Alloc_Workspace_ssyev_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_ssyev_c` (M, N, descT)

2.61 `morse_s::MORSE_Alloc_Workspace_ssyevd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_alloc_workspace_ssyevd_c` (M, N, descT)

2.62 morse_s::MORSE_Alloc_Workspace_ssygvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_ssygvd_c** (M, N, descT)

2.63 morse_s::MORSE_Alloc_Workspace_ssytrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_ssytrd_c** (M, N, descT)

2.64 morse_z::MORSE_Alloc_Workspace_zgebrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgebrd_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zgebrd_c** (M, N, descT)

2.65 morse_z::MORSE_Alloc_Workspace_zgeev_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgeev_c** (N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zgeev_c** (N, descT)

2.66 morse_z::MORSE_Alloc_Workspace_zgehrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgehrd_c** (N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zgehrd_c** (N, descT)

2.67 morse_z::MORSE_Alloc_Workspace_zgelqf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgelqf_c** (M, N, T)
- integer(kind=c_int) function **morse_alloc_workspace_zgelqf_c** (M, N, T)

2.68 morse_z::MORSE_Alloc_Workspace_zgelqf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgelqf_tile_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zgelqf_tile_c** (M, N, descT)

2.69 `morse_z::MORSE_Alloc_Workspace_zgels_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgels_c` (M, N, T)
- integer(kind=c_int) function `morse_alloc_workspace_zgels_c` (M, N, T)

2.70 `morse_z::MORSE_Alloc_Workspace_zgels_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgels_tile_c` (M, N, descT)
- integer(kind=c_int) function `morse_alloc_workspace_zgels_tile_c` (M, N, descT)

2.71 `morse_z::MORSE_Alloc_Workspace_zgeqrf_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgeqrf_c` (M, N, T)
- integer(kind=c_int) function `morse_alloc_workspace_zgeqrf_c` (M, N, T)

2.72 `morse_z::MORSE_Alloc_Workspace_zgeqrf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgeqrf_tile_c` (M, N, descT)
- integer(kind=c_int) function `morse_alloc_workspace_zgeqrf_tile_c` (M, N, descT)

2.73 `morse_z::MORSE_Alloc_Workspace_zgesv_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgesv_incpiv_c` (N, descL, IPIV)
- integer(kind=c_int) function `morse_alloc_workspace_zgesv_incpiv_c` (N, descL, IPIV)

2.74 `morse_z::MORSE_Alloc_Workspace_zgesv_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgesv_incpiv_tile_c` (N, descL, IPIV)
- integer(kind=c_int) function `morse_alloc_workspace_zgesv_incpiv_tile_c` (N, descL, IPIV)

2.75 `morse_z::MORSE_Alloc_Workspace_zgesvd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_alloc_workspace_zgesvd_c` (M, N, descT)
- integer(kind=c_int) function `morse_alloc_workspace_zgesvd_c` (M, N, descT)

2.76 morse_z::MORSE_Alloc_Workspace_zgetrf_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgetrf_incpiv_c** (M, N, descL, IPIV)
- integer(kind=c_int) function **morse_alloc_workspace_zgetrf_incpiv_c** (M, N, descL, IPIV)

2.77 morse_z::MORSE_Alloc_Workspace_zgetrf_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgetrf_incpiv_tile_c** (N, descL, IPIV)
- integer(kind=c_int) function **morse_alloc_workspace_zgetrf_incpiv_tile_c** (N, descL, IPIV)

2.78 morse_z::MORSE_Alloc_Workspace_zgetri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zgetri_tile_async_c** (A, W)
- integer(kind=c_int) function **morse_alloc_workspace_zgetri_tile_async_c** (A, W)

2.79 morse_z::MORSE_Alloc_Workspace_zheev_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zheev_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zheev_c** (M, N, descT)

2.80 morse_z::MORSE_Alloc_Workspace_zheevd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zheevd_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zheevd_c** (M, N, descT)

2.81 morse_z::MORSE_Alloc_Workspace_zhegv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zhegv_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zhegv_c** (M, N, descT)

2.82 morse_z::MORSE_Alloc_Workspace_zhegvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zhegvd_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zhegvd_c** (M, N, descT)

2.83 morse_z::MORSE_Alloc_Workspace_zhetrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_alloc_workspace_zhetrd_c** (M, N, descT)
- integer(kind=c_int) function **morse_alloc_workspace_zhetrd_c** (M, N, descT)

2.84 morse_c Module Reference

Data Types

- interface [MORSE_Alloc_Workspace_cgebrd_c](#)
- interface [MORSE_Alloc_Workspace_cgeev_c](#)
- interface [MORSE_Alloc_Workspace_cgehrd_c](#)
- interface [MORSE_Alloc_Workspace_cgelqf_c](#)
- interface [MORSE_Alloc_Workspace_cgelqf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_cgels_c](#)
- interface [MORSE_Alloc_Workspace_cgels_Tile_c](#)
- interface [MORSE_Alloc_Workspace_cgeqrf_c](#)
- interface [MORSE_Alloc_Workspace_cgeqrf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_cgesv_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_cgesv_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_cgesvd_c](#)
- interface [MORSE_Alloc_Workspace_cgetrf_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_cgetrf_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_cgetri_Tile_Async_c](#)
- interface [MORSE_Alloc_Workspace_cheev_c](#)
- interface [MORSE_Alloc_Workspace_cheevd_c](#)
- interface [MORSE_Alloc_Workspace_chegv_c](#)
- interface [MORSE_Alloc_Workspace_chegvd_c](#)
- interface [MORSE_Alloc_Workspace_chetrd_c](#)
- interface [MORSE_cgebrd_c](#)
- interface [MORSE_cgebrd_Tile_Async_c](#)
- interface [MORSE_cgebrd_Tile_c](#)
- interface [MORSE_cgecfi_Async_c](#)
- interface [MORSE_cgecfi_c](#)
- interface [MORSE_cgelqf_c](#)
- interface [MORSE_cgelqf_Tile_Async_c](#)
- interface [MORSE_cgelqf_Tile_c](#)
- interface [MORSE_cgelqs_c](#)
- interface [MORSE_cgelqs_Tile_Async_c](#)
- interface [MORSE_cgelqs_Tile_c](#)
- interface [MORSE_cgels_c](#)
- interface [MORSE_cgels_Tile_Async_c](#)
- interface [MORSE_cgels_Tile_c](#)
- interface [MORSE_cgemm_c](#)
- interface [MORSE_cgemm_Tile_Async_c](#)
- interface [MORSE_cgemm_Tile_c](#)
- interface [MORSE_cgeqrf_c](#)
- interface [MORSE_cgeqrf_Tile_Async_c](#)
- interface [MORSE_cgeqrf_Tile_c](#)
- interface [MORSE_cgeqrs_c](#)
- interface [MORSE_cgeqrs_Tile_Async_c](#)

- interface [MORSE_cgeqrs_Tile_c](#)
- interface [MORSE_cgesv_c](#)
- interface [MORSE_cgesv_incpiv_c](#)
- interface [MORSE_cgesv_incpiv_Tile_Async_c](#)
- interface [MORSE_cgesv_incpiv_Tile_c](#)
- interface [MORSE_cgesv_Tile_Async_c](#)
- interface [MORSE_cgesv_Tile_c](#)
- interface [MORSE_cgesvd_c](#)
- interface [MORSE_cgesvd_Tile_Async_c](#)
- interface [MORSE_cgesvd_Tile_c](#)
- interface [MORSE_cgetmi_Async_c](#)
- interface [MORSE_cgetmi_c](#)
- interface [MORSE_cgetrf_c](#)
- interface [MORSE_cgetrf_incpiv_c](#)
- interface [MORSE_cgetrf_incpiv_Tile_Async_c](#)
- interface [MORSE_cgetrf_incpiv_Tile_c](#)
- interface [MORSE_cgetrf_Tile_Async_c](#)
- interface [MORSE_cgetrf_Tile_c](#)
- interface [MORSE_cgetri_c](#)
- interface [MORSE_cgetri_Tile_Async_c](#)
- interface [MORSE_cgetri_Tile_c](#)
- interface [MORSE_cgetrs_c](#)
- interface [MORSE_cgetrs_incpiv_c](#)
- interface [MORSE_cgetrs_incpiv_Tile_Async_c](#)
- interface [MORSE_cgetrs_incpiv_Tile_c](#)
- interface [MORSE_cgetrs_Tile_Async_c](#)
- interface [MORSE_cgetrs_Tile_c](#)
- interface [MORSE_cheev_c](#)
- interface [MORSE_cheev_Tile_Async_c](#)
- interface [MORSE_cheev_Tile_c](#)
- interface [MORSE_cheevd_c](#)
- interface [MORSE_cheevd_Tile_Async_c](#)
- interface [MORSE_cheevd_Tile_c](#)
- interface [MORSE_chegst_c](#)
- interface [MORSE_chegst_Tile_Async_c](#)
- interface [MORSE_chegst_Tile_c](#)
- interface [MORSE_chegv_c](#)
- interface [MORSE_chegv_Tile_Async_c](#)
- interface [MORSE_chegv_Tile_c](#)
- interface [MORSE_chegvd_c](#)
- interface [MORSE_chegvd_Tile_Async_c](#)
- interface [MORSE_chegvd_Tile_c](#)
- interface [MORSE_chemm_c](#)
- interface [MORSE_chemm_Tile_Async_c](#)
- interface [MORSE_chemm_Tile_c](#)
- interface [MORSE_cher2k_c](#)
- interface [MORSE_cher2k_Tile_Async_c](#)
- interface [MORSE_cher2k_Tile_c](#)
- interface [MORSE_cherk_c](#)
- interface [MORSE_cherk_Tile_Async_c](#)
- interface [MORSE_cherk_Tile_c](#)
- interface [MORSE_chetrd_c](#)
- interface [MORSE_chetrd_Tile_Async_c](#)
- interface [MORSE_chetrd_Tile_c](#)
- interface [MORSE_clacpy_c](#)

- interface [MORSE_clacpy_Tile_Async_c](#)
- interface [MORSE_clacpy_Tile_c](#)
- interface [MORSE_clange_c](#)
- interface [MORSE_clange_Tile_Async_c](#)
- interface [MORSE_clange_Tile_c](#)
- interface [MORSE_clanhe_c](#)
- interface [MORSE_clanhe_Tile_Async_c](#)
- interface [MORSE_clanhe_Tile_c](#)
- interface [MORSE_clansy_c](#)
- interface [MORSE_clansy_Tile_Async_c](#)
- interface [MORSE_clansy_Tile_c](#)
- interface [MORSE_cLapack_to_Tile_Async_c](#)
- interface [MORSE_cLapack_to_Tile_c](#)
- interface [MORSE_claset_c](#)
- interface [MORSE_claset_Tile_Async_c](#)
- interface [MORSE_claset_Tile_c](#)
- interface [MORSE_claswp_c](#)
- interface [MORSE_claswp_Tile_Async_c](#)
- interface [MORSE_claswp_Tile_c](#)
- interface [MORSE_claswpc_c](#)
- interface [MORSE_claswpc_Tile_Async_c](#)
- interface [MORSE_claswpc_Tile_c](#)
- interface [MORSE_clauum_c](#)
- interface [MORSE_clauum_Tile_Async_c](#)
- interface [MORSE_clauum_Tile_c](#)
- interface [MORSE_cplghe_c](#)
- interface [MORSE_cplghe_Tile_Async_c](#)
- interface [MORSE_cplghe_Tile_c](#)
- interface [MORSE_cplgsy_c](#)
- interface [MORSE_cplgsy_Tile_Async_c](#)
- interface [MORSE_cplgsy_Tile_c](#)
- interface [MORSE_cplrnt_c](#)
- interface [MORSE_cplrnt_Tile_Async_c](#)
- interface [MORSE_cplrnt_Tile_c](#)
- interface [MORSE_cposv_c](#)
- interface [MORSE_cposv_Tile_Async_c](#)
- interface [MORSE_cposv_Tile_c](#)
- interface [MORSE_cpotrf_c](#)
- interface [MORSE_cpotrf_Tile_Async_c](#)
- interface [MORSE_cpotrf_Tile_c](#)
- interface [MORSE_cpotri_c](#)
- interface [MORSE_cpotri_Tile_Async_c](#)
- interface [MORSE_cpotri_Tile_c](#)
- interface [MORSE_cpotrs_c](#)
- interface [MORSE_cpotrs_Tile_Async_c](#)
- interface [MORSE_cpotrs_Tile_c](#)
- interface [MORSE_csymm_c](#)
- interface [MORSE_csymm_Tile_Async_c](#)
- interface [MORSE_csymm_Tile_c](#)
- interface [MORSE_csyr2k_c](#)
- interface [MORSE_csyr2k_Tile_Async_c](#)
- interface [MORSE_csyr2k_Tile_c](#)
- interface [MORSE_csyrk_c](#)
- interface [MORSE_csyrk_Tile_Async_c](#)
- interface [MORSE_csyrk_Tile_c](#)

- interface [MORSE_cTile_to_Lapack_Async_c](#)
- interface [MORSE_cTile_to_Lapack_c](#)
- interface [MORSE_ctrmm_c](#)
- interface [MORSE_ctrmm_Tile_Async_c](#)
- interface [MORSE_ctrmm_Tile_c](#)
- interface [MORSE_ctrsm_c](#)
- interface [MORSE_ctrsm_Tile_Async_c](#)
- interface [MORSE_ctrsm_Tile_c](#)
- interface [MORSE_ctrsmpl_c](#)
- interface [MORSE_ctrsmpl_Tile_Async_c](#)
- interface [MORSE_ctrsmpl_Tile_c](#)
- interface [MORSE_ctrsmrv_c](#)
- interface [MORSE_ctrsmrv_Tile_Async_c](#)
- interface [MORSE_ctrsmrv_Tile_c](#)
- interface [MORSE_ctrtri_c](#)
- interface [MORSE_ctrtri_Tile_Async_c](#)
- interface [MORSE_ctrtri_Tile_c](#)
- interface [MORSE_cunglq_c](#)
- interface [MORSE_cunglq_Tile_Async_c](#)
- interface [MORSE_cunglq_Tile_c](#)
- interface [MORSE_cungqr_c](#)
- interface [MORSE_cungqr_Tile_Async_c](#)
- interface [MORSE_cungqr_Tile_c](#)
- interface [MORSE_cunmlq_c](#)
- interface [MORSE_cunmlq_Tile_Async_c](#)
- interface [MORSE_cunmlq_Tile_c](#)
- interface [MORSE_cunmqr_c](#)
- interface [MORSE_cunmqr_Tile_Async_c](#)
- interface [MORSE_cunmqr_Tile_c](#)

Public Member Functions

- subroutine [morse_cgebrd](#) (M, N, A, LDA, D, E, T, info)
- subroutine [morse_cgelqf](#) (M, N, A, LDA, T, info)
- subroutine [morse_cgelqs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_cgels](#) (trans, M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_cgemm](#) (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_cgeqrf](#) (M, N, A, LDA, T, info)
- subroutine [morse_cgeqrs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_cgesv](#) (N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_cgesv_incpiv](#) (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_cgesvd](#) (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, T, info)
- subroutine [morse_cgetrf](#) (M, N, A, LDA, IPIV, info)
- subroutine [morse_cgetrf_incpiv](#) (M, N, A, LDA, L, IPIV, info)
- subroutine [morse_cgetrs](#) (trans, N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_cgetrs_incpiv](#) (trans, N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_chemm](#) (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_cherk](#) (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine [morse_cher2k](#) (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_cheev](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_cheevd](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_chegv](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_chegvd](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_chegst](#) (itype, uplo, N, A, LDA, B, LDB, info)

- subroutine **morse_chetrd** (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ, info)
- real(kind=c_float) function **morse_clange** (norm, M, N, A, LDA, work)
- real(kind=c_float) function **morse_clanhe** (norm, uplo, N, A, LDA, work)
- real(kind=c_float) function **morse_clansy** (norm, uplo, N, A, LDA, work)
- subroutine **morse_claswp** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_clauum** (uplo, N, A, LDA, info)
- subroutine **morse_cplghe** (bump, N, A, LDA, seed, info)
- subroutine **morse_cplgsy** (bump, N, A, LDA, seed, info)
- subroutine **morse_cplrnt** (M, N, A, LDA, seed, info)
- subroutine **morse_cposv** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_cpotrf** (uplo, N, A, LDA, info)
- subroutine **morse_cpotri** (uplo, N, A, LDA, info)
- subroutine **morse_cpotrs** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_csymm** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_csyrk** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine **morse_csyr2k** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_ctrmm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_ctrsm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_ctrsmpl** (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine **morse_ctrtri** (uplo, diag, N, A, LDA, info)
- subroutine **morse_cunglq** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_cungqr** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_cunmlq** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_cunmqr** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_cgecfi** (m, n, A, fin, imb, inb, fout, omb, onb, info)
- subroutine **morse_cgetmi** (m, n, A, fin, mb, nb, info)
- subroutine **morse_cgetri** (N, A, LDA, IPIV, info)
- subroutine **morse_clacpy** (uplo, M, N, A, LDA, B, LDB, info)
- subroutine **morse_claset** (uplo, M, N, alpha, beta, A, LDA, info)
- subroutine **morse_claswpc** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_ctrsmrv** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_cgebrd_tile** (A, D, E, T, info)
- subroutine **morse_cgelsqf_tile** (A, T, info)
- subroutine **morse_cgelsqs_tile** (A, T, B, info)
- subroutine **morse_cgels_tile** (trans, A, T, B, info)
- subroutine **morse_cgemm_tile** (transA, transB, alpha, A, B, beta, C, info)
- subroutine **morse_cgeqrf_tile** (A, T, info)
- subroutine **morse_cgeqrs_tile** (A, T, B, info)
- subroutine **morse_cgesv_tile** (A, IPIV, B, info)
- subroutine **morse_cgesv_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_cgesvd_tile** (jobu, jobvt, A, S, U, VT, T, info)
- subroutine **morse_cgetrf_tile** (A, IPIV, info)
- subroutine **morse_cgetrf_incpiv_tile** (A, L, IPIV, info)
- subroutine **morse_cgetrs_tile** (trans, A, IPIV, B, info)
- subroutine **morse_cgetrs_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_chemm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_cherk_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_cher2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_cheev_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_cheevd_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_chegv_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_chegvd_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_chegst_tile** (itype, uplo, A, B, info)
- subroutine **morse_chetrd_tile** (jobz, uplo, A, D, E, T, Q, LDQ, info)
- real(kind=c_float) function **morse_clange_tile** (norm, A, work)

- real(kind=c_float) function **morse_clanhe_tile** (norm, uplo, A, work)
- real(kind=c_float) function **morse_clansy_tile** (norm, uplo, A, work)
- subroutine **morse_claswp_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_clauum_tile** (uplo, A, info)
- subroutine **morse_cplghe_tile** (bump, A, seed, info)
- subroutine **morse_cplgsy_tile** (bump, A, seed, info)
- subroutine **morse_cplrnt_tile** (A, seed, info)
- subroutine **morse_cposv_tile** (uplo, A, B, info)
- subroutine **morse_cpotrf_tile** (uplo, A, info)
- subroutine **morse_cpotri_tile** (uplo, A, info)
- subroutine **morse_cpotrs_tile** (uplo, A, B, info)
- subroutine **morse_csymm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_csyrk_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_csy2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_ctrmm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_ctrsm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_ctrsmpl_tile** (A, L, IPIV, B, info)
- subroutine **morse_ctrtri_tile** (uplo, diag, A, info)
- subroutine **morse_cunglq_tile** (A, T, B, info)
- subroutine **morse_cungqr_tile** (A, T, B, info)
- subroutine **morse_cunmlq_tile** (side, trans, A, T, B, info)
- subroutine **morse_cunmqr_tile** (side, trans, A, T, B, info)
- subroutine **morse_cgetri_tile** (A, IPIV, info)
- subroutine **morse_clacpy_tile** (uplo, A, B, info)
- subroutine **morse_claset_tile** (uplo, alpha, beta, A, info)
- subroutine **morse_claswpc_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_ctrsmrv_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_cgetri_tile_async** (A, IPIV, W, sequence, request, info)
- subroutine **morse_clange_tile_async** (norm, A, work, value, sequence, request, info)
- subroutine **morse_clansy_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_cgebrd_tile_async** (A, D, E, T, sequence, request, info)
- subroutine **morse_cgecfi_async** (m, n, A, fin, imb, inb, fout, omb, onb, sequence, request, info)
- subroutine **morse_cgelsq_tile_async** (A, T, sequence, request, info)
- subroutine **morse_cgelsq_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_cgels_tile_async** (trans, A, T, B, sequence, request, info)
- subroutine **morse_cgemm_tile_async** (transA, transB, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_cgeqrf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_cgeqrs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_cgesv_tile_async** (A, IPIV, B, sequence, request, info)
- subroutine **morse_cgesv_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_cgesvd_tile_async** (jobu, jobvt, A, S, U, VT, T, sequence, request, info)
- subroutine **morse_cgetmi_async** (m, n, A, fin, mb, nb, sequence, request, info)
- subroutine **morse_cgetrf_tile_async** (A, IPIV, sequence, request, info)
- subroutine **morse_cgetrf_incpiv_tile_async** (A, L, IPIV, sequence, request, info)
- subroutine **morse_cgetrs_tile_async** (trans, A, IPIV, B, sequence, request, info)
- subroutine **morse_cgetrs_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_chemm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_cherk_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_cher2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_cheev_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_cheevd_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_chegv_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_chegvd_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_chegst_tile_async** (itype, uplo, A, B, sequence, request, info)
- subroutine **morse_chetrd_tile_async** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request, info)

- subroutine **morse_clanhe_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_claswp_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_clauum_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_cplghe_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_cplgsy_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_cplrnt_tile_async** (A, seed, sequence, request, info)
- subroutine **morse_cposv_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_cpotrf_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_cpotri_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_cpotrs_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_csymm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_csyrk_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_csyr2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_ctrmm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_ctrsm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_ctrsmpl_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_ctrtri_tile_async** (uplo, diag, A, sequence, request, info)
- subroutine **morse_cunglq_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_cungqr_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_cunmlq_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_cunmqr_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_clacpy_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_claset_tile_async** (uplo, alpha, beta, A, sequence, request, info)
- subroutine **morse_claswpc_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_ctrsmrv_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_alloc_workspace_cgels** (M, N, T, info)
- subroutine **morse_alloc_workspace_cgels** (M, N, T, info)
- subroutine **morse_alloc_workspace_cgeqrf** (M, N, T, info)
- subroutine **morse_alloc_workspace_cgesv_incpiv** (N, L, IPIV, info)
- subroutine **morse_alloc_workspace_cgetrf_incpiv** (M, N, L, IPIV, info)
- subroutine **morse_alloc_workspace_cggev** (N, T, info)
- subroutine **morse_alloc_workspace_cgebrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_cgehrd** (N, T, info)
- subroutine **morse_alloc_workspace_cgesvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_cheev** (M, N, T, info)
- subroutine **morse_alloc_workspace_cheevd** (M, N, T, info)
- subroutine **morse_alloc_workspace_chegv** (M, N, T, info)
- subroutine **morse_alloc_workspace_chegvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_chetrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_cgels_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_cgels_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_cgeqrf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_cgesv_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_cgetrf_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_cgetri_tile_async** (A, W, info)
- subroutine **morse_clapack_to_tile** (Af77, LDA, A, info)
- subroutine **morse_ctile_to_lapack** (A, Af77, LDA, info)
- subroutine **morse_clapack_to_tile_async** (Af77, LDA, A, sequence, request, info)
- subroutine **morse_ctile_to_lapack_async** (A, Af77, LDA, sequence, request, info)

2.85 morse_c::MORSE_cgebrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgebrd_c** (M, N, A, LDA, D, E, descT)

2.86 morse_c::MORSE_cgebrd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgebrd_tile_async_c** (A, D, E, T, sequence, request)

2.87 morse_c::MORSE_cgebrd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgebrd_tile_c** (A, D, E, T)

2.88 morse_c::MORSE_cgecfi_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgecfi_async_c** (m, n, A, f_in, imb, inb, f_out, omb, onb, sequence, request)

2.89 morse_c::MORSE_cgecfi_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgecfi_c** (m, n, A, fin, imb, inb, fout, omb, onb)

2.90 morse_c::MORSE_cgelsqf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgelsqf_c** (M, N, A, LDA, descT)

2.91 morse_c::MORSE_cgelsqf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgelsqf_tile_async_c** (A, T, sequence, request)

2.92 morse_c::MORSE_cgelsqf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgelsqf_tile_c** (A, T)

2.93 `morse_c::MORSE_cgelqs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgelqs_c` (M, N, NRHS, A, LDA, descT, B, LDB)

2.94 `morse_c::MORSE_cgelqs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgelqs_tile_async_c` (A, T, B, sequence, request)

2.95 `morse_c::MORSE_cgelqs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgelqs_tile_c` (A, T, B)

2.96 `morse_c::MORSE_cgels_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgels_c` (trans, M, N, NRHS, A, LDA, descT, B, LDB)

2.97 `morse_c::MORSE_cgels_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgels_tile_async_c` (trans, A, T, B, sequence, request)

2.98 `morse_c::MORSE_cgels_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgels_tile_c` (trans, A, T, B)

2.99 `morse_c::MORSE_cgemm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgemm_c` (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.100 morse_c::MORSE_cgemm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgemm_tile_async_c** (transA, transB, alpha, A, B, beta, C, sequence, request)

2.101 morse_c::MORSE_cgemm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgemm_tile_c** (transA, transB, alpha, A, B, beta, C)

2.102 morse_c::MORSE_cgeqrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgeqrf_c** (M, N, A, LDA, descT)

2.103 morse_c::MORSE_cgeqrf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgeqrf_tile_async_c** (A, T, sequence, request)

2.104 morse_c::MORSE_cgeqrf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgeqrf_tile_c** (A, T)

2.105 morse_c::MORSE_cgeqrs_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgeqrs_c** (M, N, NRHS, A, LDA, descT, B, LDB)

2.106 morse_c::MORSE_cgeqrs_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgeqrs_tile_async_c** (A, T, B, sequence, request)

2.107 `morse_c::MORSE_cgeqrs_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgeqrs_tile_c` (A, T, B)

2.108 `morse_c::MORSE_cgesv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgesv_c` (N, NRHS, A, LDA, IPIV, B, LDB)

2.109 `morse_c::MORSE_cgesv_incpiv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgesv_incpiv_c` (N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.110 `morse_c::MORSE_cgesv_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgesv_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)

2.111 `morse_c::MORSE_cgesv_incpiv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgesv_incpiv_tile_c` (A, L, IPIV, B)

2.112 `morse_c::MORSE_cgesv_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgesv_tile_async_c` (A, IPIV, B, sequence, request)

2.113 `morse_c::MORSE_cgesv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgesv_tile_c` (A, IPIV, B)

2.114 morse_c::MORSE_cgesvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgesvd_c** (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, descT)

2.115 morse_c::MORSE_cgesvd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgesvd_tile_async_c** (jobu, jobvt, A, S, U, VT, T, sequence, request)

2.116 morse_c::MORSE_cgesvd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgesvd_tile_c** (jobu, jobvt, A, S, U, VT, T)

2.117 morse_c::MORSE_cgetmi_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgetmi_async_c** (m, n, A, f_in, mb, inb, sequence, request)

2.118 morse_c::MORSE_cgetmi_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgetmi_c** (m, n, A, fin, mb, nb)

2.119 morse_c::MORSE_cgetrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgetrf_c** (M, N, A, LDA, IPIV)

2.120 morse_c::MORSE_cgetrf_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cgetrf_incpiv_c** (M, N, A, LDA, descL, IPIV)

2.121 `morse_c::MORSE_cgetrf_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetrf_incpiv_tile_async_c` (A, L, IPIV, sequence, request)

2.122 `morse_c::MORSE_cgetrf_incpiv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetrf_incpiv_tile_c` (A, L, IPIV)

2.123 `morse_c::MORSE_cgetrf_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetrf_tile_async_c` (A, IPIV, sequence, request)

2.124 `morse_c::MORSE_cgetrf_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetrf_tile_c` (A, IPIV)

2.125 `morse_c::MORSE_cgetri_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetri_c` (N, A, LDA, IPIV)

2.126 `morse_c::MORSE_cgetri_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetri_tile_async_c` (A, IPIV, W, sequence, request)

2.127 `morse_c::MORSE_cgetri_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cgetri_tile_c` (A, IPIV)

2.128 `morse_c::MORSE_cgetrs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgetrs_c` (trans, N, NRHS, A, LDA, IPIV, B, LDB)

2.129 `morse_c::MORSE_cgetrs_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgetrs_incpiv_c` (trans, N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.130 `morse_c::MORSE_cgetrs_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgetrs_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)

2.131 `morse_c::MORSE_cgetrs_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgetrs_incpiv_tile_c` (A, L, IPIV, B)

2.132 `morse_c::MORSE_cgetrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgetrs_tile_async_c` (trans, A, IPIV, B, sequence, request)

2.133 `morse_c::MORSE_cgetrs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cgetrs_tile_c` (trans, A, IPIV, B)

2.134 `morse_c::MORSE_cheev_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cheev_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.135 `morse_c::MORSE_cheev_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cheev_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.136 `morse_c::MORSE_cheev_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cheev_tile_c` (jobz, uplo, A, W, T, Q, LDQ)

2.137 `morse_c::MORSE_cheevd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cheevd_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.138 `morse_c::MORSE_cheevd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cheevd_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.139 `morse_c::MORSE_cheevd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cheevd_tile_c` (jobz, uplo, A, W, T, Q, LDQ)

2.140 `morse_c::MORSE_chegst_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_chegst_c` (itype, uplo, N, A, LDA, B, LDB)

2.141 `morse_c::MORSE_chegst_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_chegst_tile_async_c` (itype, uplo, A, B, sequence, request)

2.142 morse_c::MORSE_chegst_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegst_tile_c** (itype, uplo, A, B)

2.143 morse_c::MORSE_chegv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegv_c** (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.144 morse_c::MORSE_chegv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegv_tile_async_c** (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.145 morse_c::MORSE_chegv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegv_tile_c** (itype, jobz, uplo, A, B, W, T, Q)

2.146 morse_c::MORSE_chegvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegvd_c** (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.147 morse_c::MORSE_chegvd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegvd_tile_async_c** (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.148 morse_c::MORSE_chegvd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chegvd_tile_c** (itype, jobz, uplo, A, B, W, T, Q)

2.149 `morse_c::MORSE_chemm_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_chemm_c` (`side`, `uplo`, `M`, `N`, `alpha`, `A`, `LDA`, `B`, `LDB`, `beta`, `C`, `LDC`)

2.150 `morse_c::MORSE_chemm_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_chemm_tile_async_c` (`side`, `uplo`, `alpha`, `A`, `B`, `beta`, `C`, `sequence`, `request`)

2.151 `morse_c::MORSE_chemm_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_chemm_tile_c` (`side`, `uplo`, `alpha`, `A`, `B`, `beta`, `C`)

2.152 `morse_c::MORSE_cher2k_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cher2k_c` (`uplo`, `trans`, `N`, `K`, `alpha`, `A`, `LDA`, `B`, `LDB`, `beta`, `C`, `LDC`)

2.153 `morse_c::MORSE_cher2k_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cher2k_tile_async_c` (`uplo`, `trans`, `alpha`, `A`, `B`, `beta`, `C`, `sequence`, `request`)

2.154 `morse_c::MORSE_cher2k_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cher2k_tile_c` (`uplo`, `trans`, `alpha`, `A`, `B`, `beta`, `C`)

2.155 `morse_c::MORSE_cherk_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cherk_c` (`uplo`, `trans`, `N`, `K`, `alpha`, `A`, `LDA`, `beta`, `C`, `LDC`)

2.156 morse_c::MORSE_cherk_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cherk_tile_async_c** (uplo, trans, alpha, A, beta, C, sequence, request)

2.157 morse_c::MORSE_cherk_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cherk_tile_c** (uplo, trans, alpha, A, beta, C)

2.158 morse_c::MORSE_chetrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chetrd_c** (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ)

2.159 morse_c::MORSE_chetrd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chetrd_tile_async_c** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request)

2.160 morse_c::MORSE_chetrd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_chetrd_tile_c** (jobz, uplo, A, D, E, T, Q, LDQ)

2.161 morse_c::MORSE_clacpy_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clacpy_c** (uplo, M, N, A, LDA, B, LDB)

2.162 morse_c::MORSE_clacpy_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clacpy_tile_async_c** (uplo, A, B, sequence, request)

2.163 `morse_c::MORSE_clacpy_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_clacpy_tile_c` (uplo, A, B)

2.164 `morse_c::MORSE_clange_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_clange_c` (norm, M, N, A, LDA, work)

2.165 `morse_c::MORSE_clange_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_clange_tile_async_c` (norm, A, work, value, sequence, request)

2.166 `morse_c::MORSE_clange_Tile_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_clange_tile_c` (norm, A, work)

2.167 `morse_c::MORSE_clanhe_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_clanhe_c` (norm, uplo, N, A, LDA, work)

2.168 `morse_c::MORSE_clanhe_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_clanhe_tile_async_c` (norm, uplo, A, work, value, sequence, request)

2.169 `morse_c::MORSE_clanhe_Tile_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_clanhe_tile_c` (norm, uplo, A, work)

2.170 morse_c::MORSE_clansy_c Interface Reference

Public Member Functions

- real(kind=c_float) function **morse_clansy_c** (norm, uplo, N, A, LDA, work)

2.171 morse_c::MORSE_clansy_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clansy_tile_async_c** (norm, uplo, A, work, value, sequence, request)

2.172 morse_c::MORSE_clansy_Tile_c Interface Reference

Public Member Functions

- real(kind=c_float) function **morse_clansy_tile_c** (norm, uplo, A, work)

2.173 morse_c::MORSE_cLapack_to_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clapack_to_tile_async_c** (Af77, LDA, A, sequence, request)

2.174 morse_c::MORSE_cLapack_to_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clapack_to_tile_c** (Af77, LDA, A)

2.175 morse_c::MORSE_claset_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_claset_c** (uplo, M, N, alpha, beta, A, LDA)

2.176 morse_c::MORSE_claset_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_claset_tile_async_c** (uplo, alpha, beta, A, sequence, request)

2.177 `morse_c::MORSE_claset_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claset_tile_c` (uplo, alpha, beta, A)

2.178 `morse_c::MORSE_claswp_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claswp_c` (N, A, LDA, K1, K2, IPIV, INCX)

2.179 `morse_c::MORSE_claswp_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claswp_tile_async_c` (A, K1, K2, IPIV, INCX, sequence, request)

2.180 `morse_c::MORSE_claswp_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claswp_tile_c` (A, K1, K2, IPIV, INCX)

2.181 `morse_c::MORSE_claswpc_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claswpc_c` (N, A, LDA, K1, K2, IPIV, INCX)

2.182 `morse_c::MORSE_claswpc_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claswpc_tile_async_c` (A, K1, K2, IPIV, INCX, sequence, request)

2.183 `morse_c::MORSE_claswpc_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_claswpc_tile_c` (A, K1, K2, IPIV, INCX)

2.184 morse_c::MORSE_clauum_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clauum_c** (uplo, N, A, LDA)

2.185 morse_c::MORSE_clauum_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clauum_tile_async_c** (uplo, A, sequence, request)

2.186 morse_c::MORSE_clauum_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_clauum_tile_c** (uplo, A)

2.187 morse_context_s Struct Reference

```
#include <morse_struct.h>
```

Data Fields

- MORSE_sched_t **scheduler**
- int **nworkers**
- int **ncudas**
- int **nthreads_per_worker**
- int **world_size**
- int **group_size**
- MORSE_bool **errors_enabled**
- MORSE_bool **warnings_enabled**
- MORSE_bool **autotuning_enabled**
- MORSE_bool **parallel_enabled**
- MORSE_bool **profiling_enabled**
- MORSE_enum **householder**
- MORSE_enum **translation**
- int **nb**
- int **ib**
- int **nbnbsize**
- int **ibnbsize**
- int **rhblock**
- union {
 } **schedopt**

2.187.1 Detailed Description

MORSE request uniquely identifies each asynchronous function call.

2.188 `morse_c::MORSE_cplghe_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplghe_c` (bump, N, A, LDA, seed)

2.189 `morse_c::MORSE_cplghe_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplghe_tile_async_c` (bump, A, seed, sequence, request)

2.190 `morse_c::MORSE_cplghe_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplghe_tile_c` (bump, A, seed)

2.191 `morse_c::MORSE_cplgsy_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplgsy_c` (bump, N, A, LDA, seed)

2.192 `morse_c::MORSE_cplgsy_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplgsy_tile_async_c` (bump, A, seed, sequence, request)

2.193 `morse_c::MORSE_cplgsy_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplgsy_tile_c` (bump, A, seed)

2.194 `morse_c::MORSE_cplrnt_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cplrnt_c` (M, N, A, LDA, seed)

2.195 morse_c::MORSE_cplrnt_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cplrnt_tile_async_c** (A, seed, sequence, request)

2.196 morse_c::MORSE_cplrnt_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cplrnt_tile_c** (A, seed)

2.197 morse_c::MORSE_cposv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cposv_c** (uplo, N, NRHS, A, LDA, B, LDB)

2.198 morse_c::MORSE_cposv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cposv_tile_async_c** (uplo, A, B, sequence, request)

2.199 morse_c::MORSE_cposv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cposv_tile_c** (uplo, A, B)

2.200 morse_c::MORSE_cpotrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cpotrf_c** (uplo, N, A, LDA)

2.201 morse_c::MORSE_cpotrf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cpotrf_tile_async_c** (uplo, A, sequence, request)

2.202 `morse_c::MORSE_cpotrf_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotrf_tile_c` (uplo, A)

2.203 `morse_c::MORSE_cpotri_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotri_c` (uplo, N, A, LDA)

2.204 `morse_c::MORSE_cpotri_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotri_tile_async_c` (uplo, A, sequence, request)

2.205 `morse_c::MORSE_cpotri_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotri_tile_c` (uplo, A)

2.206 `morse_c::MORSE_cpotrs_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotrs_c` (uplo, N, NRHS, A, LDA, B, LDB)

2.207 `morse_c::MORSE_cpotrs_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotrs_tile_async_c` (uplo, A, B, sequence, request)

2.208 `morse_c::MORSE_cpotrs_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cpotrs_tile_c` (uplo, A, B)

2.209 morse_c::MORSE_csymm_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csymm_c** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC)

2.210 morse_c::MORSE_csymm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csymm_tile_async_c** (side, uplo, alpha, A, B, beta, C, sequence, request)

2.211 morse_c::MORSE_csymm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csymm_tile_c** (side, uplo, alpha, A, B, beta, C)

2.212 morse_c::MORSE_csyr2k_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csyr2k_c** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.213 morse_c::MORSE_csyr2k_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csyr2k_tile_async_c** (uplo, trans, alpha, A, B, beta, C, sequence, request)

2.214 morse_c::MORSE_csyr2k_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csyr2k_tile_c** (uplo, trans, alpha, A, B, beta, C)

2.215 morse_c::MORSE_csyrrk_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_csyrrk_c** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)

2.216 `morse_c::MORSE_csyrc_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_csyrc_tile_async_c` (uplo, trans, alpha, A, beta, C, sequence, request)

2.217 `morse_c::MORSE_csyrc_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_csyrc_tile_c` (uplo, trans, alpha, A, beta, C)

2.218 `morse_c::MORSE_ctile_to_Lapack_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctile_to_lapack_async_c` (A, Af77, LDA, sequence, request)

2.219 `morse_c::MORSE_ctile_to_Lapack_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctile_to_lapack_c` (A, Af77, LDA)

2.220 `morse_c::MORSE_ctrmm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrmm_c` (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.221 `morse_c::MORSE_ctrmm_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrmm_tile_async_c` (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.222 `morse_c::MORSE_ctrmm_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrmm_tile_c` (side, uplo, transA, diag, alpha, A, B)

2.223 `morse_c::MORSE_ctrsm_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsm_c` (`side`, `uplo`, `transA`, `diag`, `N`, `NRHS`, `alpha`, `A`, `LDA`, `B`, `LDB`)

2.224 `morse_c::MORSE_ctrsm_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsm_tile_async_c` (`side`, `uplo`, `transA`, `diag`, `alpha`, `A`, `B`, `sequence`, `request`)

2.225 `morse_c::MORSE_ctrsm_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsm_tile_c` (`side`, `uplo`, `transA`, `diag`, `alpha`, `A`, `B`)

2.226 `morse_c::MORSE_ctrsmpl_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsmpl_c` (`N`, `NRHS`, `A`, `LDA`, `descL`, `IPIV`, `B`, `LDB`)

2.227 `morse_c::MORSE_ctrsmpl_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsmpl_tile_async_c` (`A`, `L`, `IPIV`, `B`, `sequence`, `request`)

2.228 `morse_c::MORSE_ctrsmpl_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsmpl_tile_c` (`A`, `L`, `IPIV`, `B`)

2.229 `morse_c::MORSE_ctrsmrv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ctrsmrv_c` (`side`, `uplo`, `transA`, `diag`, `N`, `NRHS`, `alpha`, `A`, `LDA`, `B`, `LDB`)

2.230 `morse_c::MORSE_ctrsmrv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrsmrv_tile_async_c` (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.231 `morse_c::MORSE_ctrsmrv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrsmrv_tile_c` (side, uplo, transA, diag, alpha, A, B)

2.232 `morse_c::MORSE_ctrtri_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrtri_c` (uplo, diag, N, A, LDA)

2.233 `morse_c::MORSE_ctrtri_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrtri_tile_async_c` (uplo, diag, A, sequence, request)

2.234 `morse_c::MORSE_ctrtri_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ctrtri_tile_c` (uplo, diag, A)

2.235 `morse_c::MORSE_cunglq_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cunglq_c` (M, N, K, A, LDA, descT, B, LDB)

2.236 `morse_c::MORSE_cunglq_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_cunglq_tile_async_c` (A, T, B, sequence, request)

2.237 morse_c::MORSE_cunglq_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cunglq_tile_c** (A, T, B)

2.238 morse_c::MORSE_cungqr_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cungqr_c** (M, N, K, A, LDA, descT, B, LDB)

2.239 morse_c::MORSE_cungqr_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cungqr_tile_async_c** (A, T, B, sequence, request)

2.240 morse_c::MORSE_cungqr_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cungqr_tile_c** (A, T, B)

2.241 morse_c::MORSE_cunmlq_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cunmlq_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.242 morse_c::MORSE_cunmlq_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cunmlq_tile_async_c** (side, trans, A, T, B, sequence, request)

2.243 morse_c::MORSE_cunmlq_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_cunmlq_tile_c** (side, trans, A, T, B)

2.244 `morse_c::MORSE_cunmqr_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cunmqr_c` (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.245 `morse_c::MORSE_cunmqr_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cunmqr_tile_async_c` (side, trans, A, T, B, sequence, request)

2.246 `morse_c::MORSE_cunmqr_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_cunmqr_tile_c` (side, trans, A, T, B)

2.247 `morse_d` Module Reference

Data Types

- interface [MORSE_Alloc_Workspace_dgebrd_c](#)
- interface [MORSE_Alloc_Workspace_dgeev_c](#)
- interface [MORSE_Alloc_Workspace_dgehrd_c](#)
- interface [MORSE_Alloc_Workspace_dgelqf_c](#)
- interface [MORSE_Alloc_Workspace_dgelqf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_dgels_c](#)
- interface [MORSE_Alloc_Workspace_dgels_Tile_c](#)
- interface [MORSE_Alloc_Workspace_dgeqrf_c](#)
- interface [MORSE_Alloc_Workspace_dgeqrf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_dgesv_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_dgesv_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_dgesvd_c](#)
- interface [MORSE_Alloc_Workspace_dgetrf_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_dgetrf_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_dgetri_Tile_Async_c](#)
- interface [MORSE_Alloc_Workspace_dhegv_c](#)
- interface [MORSE_Alloc_Workspace_dsyev_c](#)
- interface [MORSE_Alloc_Workspace_dsyevd_c](#)
- interface [MORSE_Alloc_Workspace_dsygvd_c](#)
- interface [MORSE_Alloc_Workspace_dsytrd_c](#)
- interface [MORSE_dgebrd_c](#)
- interface [MORSE_dgebrd_Tile_Async_c](#)
- interface [MORSE_dgebrd_Tile_c](#)
- interface [MORSE_dgecfi_Async_c](#)
- interface [MORSE_dgecfi_c](#)
- interface [MORSE_dgelqf_c](#)
- interface [MORSE_dgelqf_Tile_Async_c](#)
- interface [MORSE_dgelqf_Tile_c](#)

- interface [MORSE_dgelqs_c](#)
- interface [MORSE_dgelqs_Tile_Async_c](#)
- interface [MORSE_dgelqs_Tile_c](#)
- interface [MORSE_dgels_c](#)
- interface [MORSE_dgels_Tile_Async_c](#)
- interface [MORSE_dgels_Tile_c](#)
- interface [MORSE_dgemm_c](#)
- interface [MORSE_dgemm_Tile_Async_c](#)
- interface [MORSE_dgemm_Tile_c](#)
- interface [MORSE_dgeqrf_c](#)
- interface [MORSE_dgeqrf_Tile_Async_c](#)
- interface [MORSE_dgeqrf_Tile_c](#)
- interface [MORSE_dgeqrs_c](#)
- interface [MORSE_dgeqrs_Tile_Async_c](#)
- interface [MORSE_dgeqrs_Tile_c](#)
- interface [MORSE_dgesv_c](#)
- interface [MORSE_dgesv_incpiv_c](#)
- interface [MORSE_dgesv_incpiv_Tile_Async_c](#)
- interface [MORSE_dgesv_incpiv_Tile_c](#)
- interface [MORSE_dgesv_Tile_Async_c](#)
- interface [MORSE_dgesv_Tile_c](#)
- interface [MORSE_dgesvd_c](#)
- interface [MORSE_dgesvd_Tile_Async_c](#)
- interface [MORSE_dgesvd_Tile_c](#)
- interface [MORSE_dgetmi_Async_c](#)
- interface [MORSE_dgetmi_c](#)
- interface [MORSE_dgetrf_c](#)
- interface [MORSE_dgetrf_incpiv_c](#)
- interface [MORSE_dgetrf_incpiv_Tile_Async_c](#)
- interface [MORSE_dgetrf_incpiv_Tile_c](#)
- interface [MORSE_dgetrf_Tile_Async_c](#)
- interface [MORSE_dgetrf_Tile_c](#)
- interface [MORSE_dgetri_c](#)
- interface [MORSE_dgetri_Tile_Async_c](#)
- interface [MORSE_dgetri_Tile_c](#)
- interface [MORSE_dgetrs_c](#)
- interface [MORSE_dgetrs_incpiv_c](#)
- interface [MORSE_dgetrs_incpiv_Tile_Async_c](#)
- interface [MORSE_dgetrs_incpiv_Tile_c](#)
- interface [MORSE_dgetrs_Tile_Async_c](#)
- interface [MORSE_dgetrs_Tile_c](#)
- interface [MORSE_dhegv_c](#)
- interface [MORSE_dhegv_Tile_Async_c](#)
- interface [MORSE_dhegv_Tile_c](#)
- interface [MORSE_dlacpy_c](#)
- interface [MORSE_dlacpy_Tile_Async_c](#)
- interface [MORSE_dlacpy_Tile_c](#)
- interface [MORSE_dlange_c](#)
- interface [MORSE_dlange_Tile_Async_c](#)
- interface [MORSE_dlange_Tile_c](#)
- interface [MORSE_dlansy_c](#)
- interface [MORSE_dlansy_Tile_Async_c](#)
- interface [MORSE_dlansy_Tile_c](#)
- interface [MORSE_dLapack_to_Tile_Async_c](#)
- interface [MORSE_dLapack_to_Tile_c](#)

- interface [MORSE_dlaset_c](#)
- interface [MORSE_dlaset_Tile_Async_c](#)
- interface [MORSE_dlaset_Tile_c](#)
- interface [MORSE_dlaswp_c](#)
- interface [MORSE_dlaswp_Tile_Async_c](#)
- interface [MORSE_dlaswp_Tile_c](#)
- interface [MORSE_dlaswpc_c](#)
- interface [MORSE_dlaswpc_Tile_Async_c](#)
- interface [MORSE_dlaswpc_Tile_c](#)
- interface [MORSE_dlauum_c](#)
- interface [MORSE_dlauum_Tile_Async_c](#)
- interface [MORSE_dlauum_Tile_c](#)
- interface [MORSE_dorglq_c](#)
- interface [MORSE_dorglq_Tile_Async_c](#)
- interface [MORSE_dorglq_Tile_c](#)
- interface [MORSE_dorgqr_c](#)
- interface [MORSE_dorgqr_Tile_Async_c](#)
- interface [MORSE_dorgqr_Tile_c](#)
- interface [MORSE_dormlq_c](#)
- interface [MORSE_dormlq_Tile_Async_c](#)
- interface [MORSE_dormlq_Tile_c](#)
- interface [MORSE_dormqr_c](#)
- interface [MORSE_dormqr_Tile_Async_c](#)
- interface [MORSE_dormqr_Tile_c](#)
- interface [MORSE_dplgsy_c](#)
- interface [MORSE_dplgsy_Tile_Async_c](#)
- interface [MORSE_dplgsy_Tile_c](#)
- interface [MORSE_dplrnt_c](#)
- interface [MORSE_dplrnt_Tile_Async_c](#)
- interface [MORSE_dplrnt_Tile_c](#)
- interface [MORSE_dposv_c](#)
- interface [MORSE_dposv_Tile_Async_c](#)
- interface [MORSE_dposv_Tile_c](#)
- interface [MORSE_dpotrf_c](#)
- interface [MORSE_dpotrf_Tile_Async_c](#)
- interface [MORSE_dpotrf_Tile_c](#)
- interface [MORSE_dpotri_c](#)
- interface [MORSE_dpotri_Tile_Async_c](#)
- interface [MORSE_dpotri_Tile_c](#)
- interface [MORSE_dpotrs_c](#)
- interface [MORSE_dpotrs_Tile_Async_c](#)
- interface [MORSE_dpotrs_Tile_c](#)
- interface [MORSE_dsyev_c](#)
- interface [MORSE_dsyev_Tile_Async_c](#)
- interface [MORSE_dsyev_Tile_c](#)
- interface [MORSE_dsyevd_c](#)
- interface [MORSE_dsyevd_Tile_Async_c](#)
- interface [MORSE_dsyevd_Tile_c](#)
- interface [MORSE_dsygst_c](#)
- interface [MORSE_dsygst_Tile_Async_c](#)
- interface [MORSE_dsygst_Tile_c](#)
- interface [MORSE_dsygvd_c](#)
- interface [MORSE_dsygvd_Tile_Async_c](#)
- interface [MORSE_dsygvd_Tile_c](#)
- interface [MORSE_dsymm_c](#)

- interface [MORSE_dsymm_Tile_Async_c](#)
- interface [MORSE_dsymm_Tile_c](#)
- interface [MORSE_dsy2k_c](#)
- interface [MORSE_dsy2k_Tile_Async_c](#)
- interface [MORSE_dsy2k_Tile_c](#)
- interface [MORSE_dsyk_c](#)
- interface [MORSE_dsyk_Tile_Async_c](#)
- interface [MORSE_dsyk_Tile_c](#)
- interface [MORSE_dsytrd_c](#)
- interface [MORSE_dsytrd_Tile_Async_c](#)
- interface [MORSE_dsytrd_Tile_c](#)
- interface [MORSE_dTile_to_Lapack_Async_c](#)
- interface [MORSE_dTile_to_Lapack_c](#)
- interface [MORSE_dtrmm_c](#)
- interface [MORSE_dtrmm_Tile_Async_c](#)
- interface [MORSE_dtrmm_Tile_c](#)
- interface [MORSE_dtrsm_c](#)
- interface [MORSE_dtrsm_Tile_Async_c](#)
- interface [MORSE_dtrsm_Tile_c](#)
- interface [MORSE_dtrsmpl_c](#)
- interface [MORSE_dtrsmpl_Tile_Async_c](#)
- interface [MORSE_dtrsmpl_Tile_c](#)
- interface [MORSE_dtrsmrv_c](#)
- interface [MORSE_dtrsmrv_Tile_Async_c](#)
- interface [MORSE_dtrsmrv_Tile_c](#)
- interface [MORSE_dtrtri_c](#)
- interface [MORSE_dtrtri_Tile_Async_c](#)
- interface [MORSE_dtrtri_Tile_c](#)

Public Member Functions

- subroutine [morse_dgebrd](#) (M, N, A, LDA, D, E, T, info)
- subroutine [morse_dgelqf](#) (M, N, A, LDA, T, info)
- subroutine [morse_dgelqs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_dgels](#) (trans, M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_dgemm](#) (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_dgeqrf](#) (M, N, A, LDA, T, info)
- subroutine [morse_dgeqrs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_dgesv](#) (N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_dgesv_incpiv](#) (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_dgesvd](#) (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, T, info)
- subroutine [morse_dgetrf](#) (M, N, A, LDA, IPIV, info)
- subroutine [morse_dgetrf_incpiv](#) (M, N, A, LDA, L, IPIV, info)
- subroutine [morse_dgetrs](#) (trans, N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_dgetrs_incpiv](#) (trans, N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_dsyev](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_dsyevd](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_dhegv](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_dsygvd](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_dsygst](#) (itype, uplo, N, A, LDA, B, LDB, info)
- subroutine [morse_dsytrd](#) (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ, info)
- real(kind=c_double) function [morse_dlange](#) (norm, M, N, A, LDA, work)
- real(kind=c_double) function [morse_dlansy](#) (norm, uplo, N, A, LDA, work)
- subroutine [morse_dlaswp](#) (N, A, LDA, K1, K2, IPIV, INCX, info)

- subroutine **morse_dlauum** (uplo, N, A, LDA, info)
- subroutine **morse_dplgsy** (bump, N, A, LDA, seed, info)
- subroutine **morse_dplrnt** (M, N, A, LDA, seed, info)
- subroutine **morse_dposv** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_dpotrf** (uplo, N, A, LDA, info)
- subroutine **morse_dpotri** (uplo, N, A, LDA, info)
- subroutine **morse_dpotrs** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_dsymm** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_dsyrrk** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine **morse_dsyrrk2k** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_dtrmm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_dtrsm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_dtrsmpl** (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine **morse_dtrtri** (uplo, diag, N, A, LDA, info)
- subroutine **morse_dorglq** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_dorgqr** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_dormlq** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_dormqr** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_dgecfi** (m, n, A, fin, imb, inb, fout, omb, onb, info)
- subroutine **morse_dgetmi** (m, n, A, fin, mb, nb, info)
- subroutine **morse_dgetri** (N, A, LDA, IPIV, info)
- subroutine **morse_dlacpy** (uplo, M, N, A, LDA, B, LDB, info)
- subroutine **morse_dlaset** (uplo, M, N, alpha, beta, A, LDA, info)
- subroutine **morse_dlaswpc** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_dtrsmrv** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_dgebrd_tile** (A, D, E, T, info)
- subroutine **morse_dgelqf_tile** (A, T, info)
- subroutine **morse_dgelqs_tile** (A, T, B, info)
- subroutine **morse_dgels_tile** (trans, A, T, B, info)
- subroutine **morse_dgemm_tile** (transA, transB, alpha, A, B, beta, C, info)
- subroutine **morse_dgeqrf_tile** (A, T, info)
- subroutine **morse_dgeqrs_tile** (A, T, B, info)
- subroutine **morse_dgesv_tile** (A, IPIV, B, info)
- subroutine **morse_dgesv_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_dgesvd_tile** (jobu, jobvt, A, S, U, VT, T, info)
- subroutine **morse_dgetrf_tile** (A, IPIV, info)
- subroutine **morse_dgetrf_incpiv_tile** (A, L, IPIV, info)
- subroutine **morse_dgetrs_tile** (trans, A, IPIV, B, info)
- subroutine **morse_dgetrs_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_dsyev_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_dsyevd_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_dhegv_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_dsygvd_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_dsygst_tile** (itype, uplo, A, B, info)
- subroutine **morse_dsytrd_tile** (jobz, uplo, A, D, E, T, Q, LDQ, info)
- real(kind=c_double) function **morse_dlange_tile** (norm, A, work)
- real(kind=c_double) function **morse_dlansy_tile** (norm, uplo, A, work)
- subroutine **morse_dlaswp_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_dlauum_tile** (uplo, A, info)
- subroutine **morse_dplgsy_tile** (bump, A, seed, info)
- subroutine **morse_dplrnt_tile** (A, seed, info)
- subroutine **morse_dposv_tile** (uplo, A, B, info)
- subroutine **morse_dpotrf_tile** (uplo, A, info)
- subroutine **morse_dpotri_tile** (uplo, A, info)
- subroutine **morse_dpotrs_tile** (uplo, A, B, info)

- subroutine **morse_dsymm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_dsyrc_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_dsyrc2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_dtrmm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_dtrsm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_dtrsmpl_tile** (A, L, IPIV, B, info)
- subroutine **morse_dtrtri_tile** (uplo, diag, A, info)
- subroutine **morse_dorglq_tile** (A, T, B, info)
- subroutine **morse_dorgqr_tile** (A, T, B, info)
- subroutine **morse_dormlq_tile** (side, trans, A, T, B, info)
- subroutine **morse_dormqr_tile** (side, trans, A, T, B, info)
- subroutine **morse_dgetri_tile** (A, IPIV, info)
- subroutine **morse_dlacpy_tile** (uplo, A, B, info)
- subroutine **morse_dlaset_tile** (uplo, alpha, beta, A, info)
- subroutine **morse_dlaswpc_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_dtrsmrv_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_dgetri_tile_async** (A, IPIV, W, sequence, request, info)
- subroutine **morse_dlange_tile_async** (norm, A, work, value, sequence, request, info)
- subroutine **morse_dlansy_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_dgebrd_tile_async** (A, D, E, T, sequence, request, info)
- subroutine **morse_dgecfi_async** (m, n, A, fin, imb, inb, fout, omb, onb, sequence, request, info)
- subroutine **morse_dgelqf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_dgelqs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_dgels_tile_async** (trans, A, T, B, sequence, request, info)
- subroutine **morse_dgemm_tile_async** (transA, transB, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_dgeqrf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_dgeqrs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_dgesv_tile_async** (A, IPIV, B, sequence, request, info)
- subroutine **morse_dgesv_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_dgesvd_tile_async** (jobu, jobvt, A, S, U, VT, T, sequence, request, info)
- subroutine **morse_dgetmi_async** (m, n, A, fin, mb, nb, sequence, request, info)
- subroutine **morse_dgetrf_tile_async** (A, IPIV, sequence, request, info)
- subroutine **morse_dgetrf_incpiv_tile_async** (A, L, IPIV, sequence, request, info)
- subroutine **morse_dgetrs_tile_async** (trans, A, IPIV, B, sequence, request, info)
- subroutine **morse_dgetrs_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_dsyev_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_dsyevd_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_dhegv_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_dsygvd_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_dsygst_tile_async** (itype, uplo, A, B, sequence, request, info)
- subroutine **morse_dsytrd_tile_async** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request, info)
- subroutine **morse_dlaswp_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_dlauum_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_dpilgsy_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_dplrnt_tile_async** (A, seed, sequence, request, info)
- subroutine **morse_dposv_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_dpotrf_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_dpotri_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_dpotrs_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_dsymm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_dsyrc_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_dsyrc2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_dtrmm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_dtrsm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_dtrsmpl_tile_async** (A, L, IPIV, B, sequence, request, info)

- subroutine **morse_dtrtri_tile_async** (uplo, diag, A, sequence, request, info)
- subroutine **morse_dorglq_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_dorgqr_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_dormlq_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_dormqr_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_dlacpy_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_dlaset_tile_async** (uplo, alpha, beta, A, sequence, request, info)
- subroutine **morse_dlaswpc_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_dtrsmrv_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_alloc_workspace_dgelqf** (M, N, T, info)
- subroutine **morse_alloc_workspace_dgels** (M, N, T, info)
- subroutine **morse_alloc_workspace_dgeqrf** (M, N, T, info)
- subroutine **morse_alloc_workspace_dgesv_incpiv** (N, L, IPIV, info)
- subroutine **morse_alloc_workspace_dgetrf_incpiv** (M, N, L, IPIV, info)
- subroutine **morse_alloc_workspace_dgeev** (N, T, info)
- subroutine **morse_alloc_workspace_dgebrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_dgehrd** (N, T, info)
- subroutine **morse_alloc_workspace_dgesvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_dsyev** (M, N, T, info)
- subroutine **morse_alloc_workspace_dsyevd** (M, N, T, info)
- subroutine **morse_alloc_workspace_dhegv** (M, N, T, info)
- subroutine **morse_alloc_workspace_dsygvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_dsytrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_dgelqf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_dgels_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_dgeqrf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_dgesv_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_dgetrf_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_dgetri_tile_async** (A, W, info)
- subroutine **morse_dlapack_to_tile** (Af77, LDA, A, info)
- subroutine **morse_dtile_to_lapack** (A, Af77, LDA, info)
- subroutine **morse_dlapack_to_tile_async** (Af77, LDA, A, sequence, request, info)
- subroutine **morse_dtile_to_lapack_async** (A, Af77, LDA, sequence, request, info)

2.248 morse::MORSE_Dealloc_Handle_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dealloc_handle_c** (handle)

2.249 morse::MORSE_Dealloc_Handle_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dealloc_handle_tile_c** (desc)

2.250 morse::morse_desc_create Interface Reference

Public Member Functions

- subroutine **morse_desc_create_s** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_create_d** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_create_cpx** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)
- subroutine **morse_desc_create_z** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n, info)

2.251 morse::MORSE_Desc_Create_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_desc_create_c** (desc, mat, dtyp, mb, nb, bsiz, lm, ln, i, j, m, n)

2.252 morse::MORSE_Desc_Destroy_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_desc_destroy_c** (desc)

2.253 morse_desc_s Struct Reference

Data Fields

- void *(**get_blkaddr**)(const [MORSE_desc_t](#) *, int, int)
- int(**get_blkidd**)(const [MORSE_desc_t](#) *, int)
- void * **mat**
- size_t **A21**
- size_t **A12**
- size_t **A22**
- MORSE_enum **styp**
- MORSE_enum **dtyp**
- int **mb**
- int **nb**
- int **bsiz**
- int **lm**
- int **ln**
- int **lm1**
- int **ln1**
- int **lmt**
- int **lnt**
- int **i**
- int **j**
- int **m**
- int **n**
- int **mt**
- int **nt**
- int **occurrences**
- int **myrank**

2.254 `morse_d::MORSE_dgebrd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgebrd_c` (M, N, A, LDA, D, E, descT)

2.255 `morse_d::MORSE_dgebrd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgebrd_tile_async_c` (A, D, E, T, sequence, request)

2.256 `morse_d::MORSE_dgebrd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgebrd_tile_c` (A, D, E, T)

2.257 `morse_d::MORSE_dgecfi_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgecfi_async_c` (m, n, A, f_in, imb, inb, f_out, omb, onb, sequence, request)

2.258 `morse_d::MORSE_dgecfi_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgecfi_c` (m, n, A, fin, imb, inb, fout, omb, onb)

2.259 `morse_d::MORSE_dgelqf_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgelqf_c` (M, N, A, LDA, descT)

2.260 `morse_d::MORSE_dgelqf_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgelqf_tile_async_c` (A, T, sequence, request)

2.261 morse_d::MORSE_dgelqf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgelqf_tile_c** (A, T)

2.262 morse_d::MORSE_dgelqs_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgelqs_c** (M, N, NRHS, A, LDA, descT, B, LDB)

2.263 morse_d::MORSE_dgelqs_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgelqs_tile_async_c** (A, T, B, sequence, request)

2.264 morse_d::MORSE_dgelqs_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgelqs_tile_c** (A, T, B)

2.265 morse_d::MORSE_dgels_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgels_c** (trans, M, N, NRHS, A, LDA, descT, B, LDB)

2.266 morse_d::MORSE_dgels_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgels_tile_async_c** (trans, A, T, B, sequence, request)

2.267 morse_d::MORSE_dgels_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgels_tile_c** (trans, A, T, B)

2.268 `morse_d::MORSE_dgemm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgemm_c` (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.269 `morse_d::MORSE_dgemm_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgemm_tile_async_c` (transA, transB, alpha, A, B, beta, C, sequence, request)

2.270 `morse_d::MORSE_dgemm_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgemm_tile_c` (transA, transB, alpha, A, B, beta, C)

2.271 `morse_d::MORSE_dgeqrf_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgeqrf_c` (M, N, A, LDA, descT)

2.272 `morse_d::MORSE_dgeqrf_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgeqrf_tile_async_c` (A, T, sequence, request)

2.273 `morse_d::MORSE_dgeqrf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgeqrf_tile_c` (A, T)

2.274 `morse_d::MORSE_dgeqrs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgeqrs_c` (M, N, NRHS, A, LDA, descT, B, LDB)

2.275 morse_d::MORSE_dgeqrs_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgeqrs_tile_async_c** (A, T, B, sequence, request)

2.276 morse_d::MORSE_dgeqrs_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgeqrs_tile_c** (A, T, B)

2.277 morse_d::MORSE_dgesv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgesv_c** (N, NRHS, A, LDA, IPIV, B, LDB)

2.278 morse_d::MORSE_dgesv_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgesv_incpiv_c** (N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.279 morse_d::MORSE_dgesv_incpiv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgesv_incpiv_tile_async_c** (A, L, IPIV, B, sequence, request)

2.280 morse_d::MORSE_dgesv_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgesv_incpiv_tile_c** (A, L, IPIV, B)

2.281 morse_d::MORSE_dgesv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgesv_tile_async_c** (A, IPIV, B, sequence, request)

2.282 `morse_d::MORSE_dgesv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgesv_tile_c` (A, IPIV, B)

2.283 `morse_d::MORSE_dgesvd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgesvd_c` (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, descT)

2.284 `morse_d::MORSE_dgesvd_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgesvd_tile_async_c` (jobu, jobvt, A, S, U, VT, T, sequence, request)

2.285 `morse_d::MORSE_dgesvd_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgesvd_tile_c` (jobu, jobvt, A, S, U, VT, T)

2.286 `morse_d::MORSE_dgetmi_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgetmi_async_c` (m, n, A, f_in, mb, inb, sequence, request)

2.287 `morse_d::MORSE_dgetmi_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgetmi_c` (m, n, A, fin, mb, nb)

2.288 `morse_d::MORSE_dgetrf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dgetrf_c` (M, N, A, LDA, IPIV)

2.289 morse_d::MORSE_dgetrf_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetrf_incpiv_c** (M, N, A, LDA, descL, IPIV)

2.290 morse_d::MORSE_dgetrf_incpiv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetrf_incpiv_tile_async_c** (A, L, IPIV, sequence, request)

2.291 morse_d::MORSE_dgetrf_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetrf_incpiv_tile_c** (A, L, IPIV)

2.292 morse_d::MORSE_dgetrf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetrf_tile_async_c** (A, IPIV, sequence, request)

2.293 morse_d::MORSE_dgetrf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetrf_tile_c** (A, IPIV)

2.294 morse_d::MORSE_dgetri_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetri_c** (N, A, LDA, IPIV)

2.295 morse_d::MORSE_dgetri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dgetri_tile_async_c** (A, IPIV, W, sequence, request)

2.296 `morse_d::MORSE_dgetri_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetri_tile_c` (A, IPIV)

2.297 `morse_d::MORSE_dgetrs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetrs_c` (trans, N, NRHS, A, LDA, IPIV, B, LDB)

2.298 `morse_d::MORSE_dgetrs_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetrs_incpiv_c` (trans, N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.299 `morse_d::MORSE_dgetrs_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetrs_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)

2.300 `morse_d::MORSE_dgetrs_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetrs_incpiv_tile_c` (A, L, IPIV, B)

2.301 `morse_d::MORSE_dgetrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetrs_tile_async_c` (trans, A, IPIV, B, sequence, request)

2.302 `morse_d::MORSE_dgetrs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dgetrs_tile_c` (trans, A, IPIV, B)

2.303 morse_d::MORSE_dhegv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dhegv_c** (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.304 morse_d::MORSE_dhegv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dhegv_tile_async_c** (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.305 morse_d::MORSE_dhegv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dhegv_tile_c** (itype, jobz, uplo, A, B, W, T, Q)

2.306 morse::MORSE_Disable_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_disable_c** (param)

2.307 morse_d::MORSE_dlacpy_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlacpy_c** (uplo, M, N, A, LDA, B, LDB)

2.308 morse_d::MORSE_dlacpy_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlacpy_tile_async_c** (uplo, A, B, sequence, request)

2.309 morse_d::MORSE_dlacpy_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlacpy_tile_c** (uplo, A, B)

2.310 `morse_d::MORSE_dlange_c` Interface Reference

Public Member Functions

- `real(kind=c_double)` function `morse_dlange_c` (norm, M, N, A, LDA, work)

2.311 `morse_d::MORSE_dlange_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlange_tile_async_c` (norm, A, work, value, sequence, request)

2.312 `morse_d::MORSE_dlange_Tile_c` Interface Reference

Public Member Functions

- `real(kind=c_double)` function `morse_dlange_tile_c` (norm, A, work)

2.313 `morse_d::MORSE_dlansy_c` Interface Reference

Public Member Functions

- `real(kind=c_double)` function `morse_dlansy_c` (norm, uplo, N, A, LDA, work)

2.314 `morse_d::MORSE_dlansy_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlansy_tile_async_c` (norm, uplo, A, work, value, sequence, request)

2.315 `morse_d::MORSE_dlansy_Tile_c` Interface Reference

Public Member Functions

- `real(kind=c_double)` function `morse_dlansy_tile_c` (norm, uplo, A, work)

2.316 `morse_d::MORSE_dLapack_to_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlapack_to_tile_async_c` (Af77, LDA, A, sequence, request)

2.317 morse_d::MORSE_dLapack_to_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlapack_to_tile_c** (Af77, LDA, A)

2.318 morse_d::MORSE_dlaset_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlaset_c** (uplo, M, N, alpha, beta, A, LDA)

2.319 morse_d::MORSE_dlaset_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlaset_tile_async_c** (uplo, alpha, beta, A, sequence, request)

2.320 morse_d::MORSE_dlaset_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlaset_tile_c** (uplo, alpha, beta, A)

2.321 morse_d::MORSE_dlaswp_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlaswp_c** (N, A, LDA, K1, K2, IPIV, INCX)

2.322 morse_d::MORSE_dlaswp_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlaswp_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)

2.323 morse_d::MORSE_dlaswp_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dlaswp_tile_c** (A, K1, K2, IPIV, INCX)

2.324 `morse_d::MORSE_dlaswpc_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlaswpc_c` (N, A, LDA, K1, K2, IPIV, INCX)

2.325 `morse_d::MORSE_dlaswpc_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlaswpc_tile_async_c` (A, K1, K2, IPIV, INCX, sequence, request)

2.326 `morse_d::MORSE_dlaswpc_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlaswpc_tile_c` (A, K1, K2, IPIV, INCX)

2.327 `morse_d::MORSE_dlauum_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlauum_c` (uplo, N, A, LDA)

2.328 `morse_d::MORSE_dlauum_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlauum_tile_async_c` (uplo, A, sequence, request)

2.329 `morse_d::MORSE_dlauum_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dlauum_tile_c` (uplo, A)

2.330 `morse_d::MORSE_dorglq_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dorglq_c` (M, N, K, A, LDA, descT, B, LDB)

2.331 morse_d::MORSE_dorglq_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dorglq_tile_async_c** (A, T, B, sequence, request)

2.332 morse_d::MORSE_dorglq_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dorglq_tile_c** (A, T, B)

2.333 morse_d::MORSE_dorgqr_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dorgqr_c** (M, N, K, A, LDA, descT, B, LDB)

2.334 morse_d::MORSE_dorgqr_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dorgqr_tile_async_c** (A, T, B, sequence, request)

2.335 morse_d::MORSE_dorgqr_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dorgqr_tile_c** (A, T, B)

2.336 morse_d::MORSE_dormlq_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dormlq_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.337 morse_d::MORSE_dormlq_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dormlq_tile_async_c** (side, trans, A, T, B, sequence, request)

2.338 `morse_d::MORSE_dormlq_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dormlq_tile_c` (side, trans, A, T, B)

2.339 `morse_d::MORSE_dormqr_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dormqr_c` (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.340 `morse_d::MORSE_dormqr_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dormqr_tile_async_c` (side, trans, A, T, B, sequence, request)

2.341 `morse_d::MORSE_dormqr_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dormqr_tile_c` (side, trans, A, T, B)

2.342 `morse_d::MORSE_dplgsy_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dplgsy_c` (bump, N, A, LDA, seed)

2.343 `morse_d::MORSE_dplgsy_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dplgsy_tile_async_c` (bump, A, seed, sequence, request)

2.344 `morse_d::MORSE_dplgsy_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dplgsy_tile_c` (bump, A, seed)

2.345 morse_d::MORSE_dplrnt_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dplrnt_c** (M, N, A, LDA, seed)

2.346 morse_d::MORSE_dplrnt_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dplrnt_tile_async_c** (A, seed, sequence, request)

2.347 morse_d::MORSE_dplrnt_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dplrnt_tile_c** (A, seed)

2.348 morse_d::MORSE_dposv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dposv_c** (uplo, N, NRHS, A, LDA, B, LDB)

2.349 morse_d::MORSE_dposv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dposv_tile_async_c** (uplo, A, B, sequence, request)

2.350 morse_d::MORSE_dposv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dposv_tile_c** (uplo, A, B)

2.351 morse_d::MORSE_dpotrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dpotrf_c** (uplo, N, A, LDA)

2.352 `morse_d::MORSE_dpotrf_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotrf_tile_async_c` (uplo, A, sequence, request)

2.353 `morse_d::MORSE_dpotrf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotrf_tile_c` (uplo, A)

2.354 `morse_d::MORSE_dpotri_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotri_c` (uplo, N, A, LDA)

2.355 `morse_d::MORSE_dpotri_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotri_tile_async_c` (uplo, A, sequence, request)

2.356 `morse_d::MORSE_dpotri_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotri_tile_c` (uplo, A)

2.357 `morse_d::MORSE_dpotrs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotrs_c` (uplo, N, NRHS, A, LDA, B, LDB)

2.358 `morse_d::MORSE_dpotrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dpotrs_tile_async_c` (uplo, A, B, sequence, request)

2.359 morse_d::MORSE_dpotrs_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dpotrs_tile_c** (uplo, A, B)

2.360 morse_ds Module Reference

Data Types

- interface [MORSE_dsgesv_c](#)
- interface [MORSE_dsgesv_Tile_Async_c](#)
- interface [MORSE_dsgesv_Tile_c](#)
- interface [MORSE_dsposv_c](#)
- interface [MORSE_dsposv_Tile_Async_c](#)
- interface [MORSE_dsposv_Tile_c](#)
- interface [MORSE_dsungesv_c](#)
- interface [MORSE_dsungesv_Tile_Async_c](#)
- interface [MORSE_dsungesv_Tile_c](#)

Public Member Functions

- subroutine **morse_dsgesv** (N, NRHS, A, LDA, IPIV, B, LDB, X, LDX, ITER, info)
- subroutine **morse_dsposv** (uplo, N, NRHS, A, LDA, B, LDB, X, LDX, ITER, info)
- subroutine **morse_dsungesv** (trans, N, NRHS, A, LDA, B, LDB, X, LDX, ITER, info)
- subroutine **morse_dsgesv_tile** (A, IPIV, B, X, ITER, info)
- subroutine **morse_dsposv_tile** (uplo, A, B, X, ITER, info)
- subroutine **morse_dsungesv_tile** (trans, A, T, B, X, ITER, info)
- subroutine **morse_dsgesv_tile_async** (A, IPIV, B, X, ITER, sequence, request, info)
- subroutine **morse_dsposv_tile_async** (uplo, A, B, X, ITER, sequence, request, info)
- subroutine **morse_dsungesv_tile_async** (trans, A, T, B, X, ITER, sequence, request, info)

2.361 morse_ds::MORSE_dsgesv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsgesv_c** (N, NRHS, A, LDA, IPIV, B, LDB, X, LDX, ITER)

2.362 morse_ds::MORSE_dsgesv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsgesv_tile_async_c** (A, IPIV, B, X, ITER, sequence, request)

2.363 morse_ds::MORSE_dsgesv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsgesv_tile_c** (A, IPIV, B, X, ITER)

2.364 `morse_ds::MORSE_dsposv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsposv_c` (uplo, N, NRHS, A, LDA, B, LDB, X, LDX, ITER)

2.365 `morse_ds::MORSE_dsposv_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsposv_tile_async_c` (uplo, A, B, X, ITER, sequence, request)

2.366 `morse_ds::MORSE_dsposv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsposv_tile_c` (uplo, A, B, X, ITER)

2.367 `morse_ds::MORSE_dsungesv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsungesv_c` (trans, N, NRHS, A, LDA, B, LDB, X, LDX, ITER)

2.368 `morse_ds::MORSE_dsungesv_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsungesv_tile_async_c` (trans, A, T, B, X, ITER, sequence, request)

2.369 `morse_ds::MORSE_dsungesv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsungesv_tile_c` (trans, A, T, B, X, ITER)

2.370 `morse_d::MORSE_dsyev_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dsyev_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.371 morse_d::MORSE_dsyev_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyev_tile_async_c** (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.372 morse_d::MORSE_dsyev_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyev_tile_c** (jobz, uplo, A, W, T, Q, LDQ)

2.373 morse_d::MORSE_dsyevd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyevd_c** (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.374 morse_d::MORSE_dsyevd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyevd_tile_async_c** (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.375 morse_d::MORSE_dsyevd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyevd_tile_c** (jobz, uplo, A, W, T, Q, LDQ)

2.376 morse_d::MORSE_dsygst_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsygst_c** (itype, uplo, N, A, LDA, B, LDB)

2.377 morse_d::MORSE_dsygst_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsygst_tile_async_c** (itype, uplo, A, B, sequence, request)

2.378 `morse_d::MORSE_dsygst_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsygst_tile_c` (itype, uplo, A, B)

2.379 `morse_d::MORSE_dsygvd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsygvd_c` (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.380 `morse_d::MORSE_dsygvd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsygvd_tile_async_c` (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.381 `morse_d::MORSE_dsygvd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsygvd_tile_c` (itype, jobz, uplo, A, B, W, T, Q)

2.382 `morse_d::MORSE_dsymm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsymm_c` (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC)

2.383 `morse_d::MORSE_dsymm_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsymm_tile_async_c` (side, uplo, alpha, A, B, beta, C, sequence, request)

2.384 `morse_d::MORSE_dsymm_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsymm_tile_c` (side, uplo, alpha, A, B, beta, C)

2.385 morse_d::MORSE_dsy2k_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsy2k_c** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.386 morse_d::MORSE_dsy2k_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsy2k_tile_async_c** (uplo, trans, alpha, A, B, beta, C, sequence, request)

2.387 morse_d::MORSE_dsy2k_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsy2k_tile_c** (uplo, trans, alpha, A, B, beta, C)

2.388 morse_d::MORSE_dsyrk_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyrk_c** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)

2.389 morse_d::MORSE_dsyrk_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyrk_tile_async_c** (uplo, trans, alpha, A, beta, C, sequence, request)

2.390 morse_d::MORSE_dsyrk_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsyrk_tile_c** (uplo, trans, alpha, A, beta, C)

2.391 morse_d::MORSE_dsytrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_dsytrd_c** (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ)

2.392 `morse_d::MORSE_dsytrd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsytrd_tile_async_c` (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request)

2.393 `morse_d::MORSE_dsytrd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dsytrd_tile_c` (jobz, uplo, A, D, E, T, Q, LDQ)

2.394 `morse_d::MORSE_dTile_to_Lapack_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtile_to_lapack_async_c` (A, Af77, LDA, sequence, request)

2.395 `morse_d::MORSE_dTile_to_Lapack_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtile_to_lapack_c` (A, Af77, LDA)

2.396 `morse_d::MORSE_dtrmm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrmm_c` (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.397 `morse_d::MORSE_dtrmm_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrmm_tile_async_c` (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.398 `morse_d::MORSE_dtrmm_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrmm_tile_c` (side, uplo, transA, diag, alpha, A, B)

2.399 `morse_d::MORSE_dtrsm_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsm_c` (`side`, `uplo`, `transA`, `diag`, `N`, `NRHS`, `alpha`, `A`, `LDA`, `B`, `LDB`)

2.400 `morse_d::MORSE_dtrsm_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsm_tile_async_c` (`side`, `uplo`, `transA`, `diag`, `alpha`, `A`, `B`, `sequence`, `request`)

2.401 `morse_d::MORSE_dtrsm_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsm_tile_c` (`side`, `uplo`, `transA`, `diag`, `alpha`, `A`, `B`)

2.402 `morse_d::MORSE_dtrsmpl_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsmpl_c` (`N`, `NRHS`, `A`, `LDA`, `descL`, `IPIV`, `B`, `LDB`)

2.403 `morse_d::MORSE_dtrsmpl_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsmpl_tile_async_c` (`A`, `L`, `IPIV`, `B`, `sequence`, `request`)

2.404 `morse_d::MORSE_dtrsmpl_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsmpl_tile_c` (`A`, `L`, `IPIV`, `B`)

2.405 `morse_d::MORSE_dtrsmrv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_dtrsmrv_c` (`side`, `uplo`, `transA`, `diag`, `N`, `NRHS`, `alpha`, `A`, `LDA`, `B`, `LDB`)

2.406 `morse_d::MORSE_dtrsmrv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrsmrv_tile_async_c` (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.407 `morse_d::MORSE_dtrsmrv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrsmrv_tile_c` (side, uplo, transA, diag, alpha, A, B)

2.408 `morse_d::MORSE_dtrtri_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrtri_c` (uplo, diag, N, A, LDA)

2.409 `morse_d::MORSE_dtrtri_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrtri_tile_async_c` (uplo, diag, A, sequence, request)

2.410 `morse_d::MORSE_dtrtri_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_dtrtri_tile_c` (uplo, diag, A)

2.411 `morse::MORSE_Enable_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_enable_c` (param)

2.412 `morse::MORSE_Finalize_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_finalize_c` ()

2.413 morse::MORSE_Get_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_get_c** (param, pval)

2.414 morse::MORSE_Init_Affinity_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_init_affinity_c** (cores, bindtab)

2.415 morse::MORSE_Init_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_init_c** (cores)

2.416 morse::morse_lapack_to_tile Interface Reference

Public Member Functions

- subroutine **morse_lapack_to_tile_s** (a_lpk, lda, a_pma, info)
- subroutine **morse_lapack_to_tile_d** (a_lpk, lda, a_pma, info)
- subroutine **morse_lapack_to_tile_cpx** (a_lpk, lda, a_pma, info)
- subroutine **morse_lapack_to_tile_z** (a_lpk, lda, a_pma, info)

2.417 morse::MORSE_Lapack_to_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_lapack_to_tile_c** (a_lpk, lda, a_pma)

2.418 morse_option_s Struct Reference

```
#include <morse_struct.h>
```

Data Fields

- [MORSE_sequence_t](#) * **sequence**
- [MORSE_request_t](#) * **request**
- int **profiling**
- int **parallel**
- int **priority**
- int **nb**
- size_t **ws_hsize**
- size_t **ws_dsize**
- void * **ws_host**
- void * **ws_device**

2.418.1 Detailed Description

MORSE options

2.419 `morse_request_s` Struct Reference

```
#include <morse_struct.h>
```

Data Fields

- MORSE_enum **status**

2.419.1 Detailed Description

MORSE request uniquely identifies each asynchronous function call.

2.420 `morse_s` Module Reference

Data Types

- interface [MORSE_Alloc_Workspace_sgebrd_c](#)
- interface [MORSE_Alloc_Workspace_sgeev_c](#)
- interface [MORSE_Alloc_Workspace_sgehrd_c](#)
- interface [MORSE_Alloc_Workspace_sgelqf_c](#)
- interface [MORSE_Alloc_Workspace_sgelqf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_sgels_c](#)
- interface [MORSE_Alloc_Workspace_sgels_Tile_c](#)
- interface [MORSE_Alloc_Workspace_sgeqrf_c](#)
- interface [MORSE_Alloc_Workspace_sgeqrf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_sgesv_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_sgesv_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_sgesvd_c](#)
- interface [MORSE_Alloc_Workspace_sgetrf_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_sgetrf_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_sgetri_Tile_Async_c](#)
- interface [MORSE_Alloc_Workspace_shegv_c](#)
- interface [MORSE_Alloc_Workspace_ssyev_c](#)
- interface [MORSE_Alloc_Workspace_ssyevd_c](#)
- interface [MORSE_Alloc_Workspace_ssygvd_c](#)
- interface [MORSE_Alloc_Workspace_ssytrd_c](#)
- interface [MORSE_sgebrd_c](#)
- interface [MORSE_sgebrd_Tile_Async_c](#)
- interface [MORSE_sgebrd_Tile_c](#)
- interface [MORSE_sgecfi_Async_c](#)
- interface [MORSE_sgecfi_c](#)
- interface [MORSE_sgelqf_c](#)
- interface [MORSE_sgelqf_Tile_Async_c](#)
- interface [MORSE_sgelqf_Tile_c](#)
- interface [MORSE_sgelqs_c](#)
- interface [MORSE_sgelqs_Tile_Async_c](#)
- interface [MORSE_sgelqs_Tile_c](#)

- interface [MORSE_sgels_c](#)
- interface [MORSE_sgels_Tile_Async_c](#)
- interface [MORSE_sgels_Tile_c](#)
- interface [MORSE_sgemm_c](#)
- interface [MORSE_sgemm_Tile_Async_c](#)
- interface [MORSE_sgemm_Tile_c](#)
- interface [MORSE_sgeqrf_c](#)
- interface [MORSE_sgeqrf_Tile_Async_c](#)
- interface [MORSE_sgeqrf_Tile_c](#)
- interface [MORSE_sgeqrs_c](#)
- interface [MORSE_sgeqrs_Tile_Async_c](#)
- interface [MORSE_sgeqrs_Tile_c](#)
- interface [MORSE_sgesv_c](#)
- interface [MORSE_sgesv_incpiv_c](#)
- interface [MORSE_sgesv_incpiv_Tile_Async_c](#)
- interface [MORSE_sgesv_incpiv_Tile_c](#)
- interface [MORSE_sgesv_Tile_Async_c](#)
- interface [MORSE_sgesv_Tile_c](#)
- interface [MORSE_sgesvd_c](#)
- interface [MORSE_sgesvd_Tile_Async_c](#)
- interface [MORSE_sgesvd_Tile_c](#)
- interface [MORSE_sgetmi_Async_c](#)
- interface [MORSE_sgetmi_c](#)
- interface [MORSE_sgetrf_c](#)
- interface [MORSE_sgetrf_incpiv_c](#)
- interface [MORSE_sgetrf_incpiv_Tile_Async_c](#)
- interface [MORSE_sgetrf_incpiv_Tile_c](#)
- interface [MORSE_sgetrf_Tile_Async_c](#)
- interface [MORSE_sgetrf_Tile_c](#)
- interface [MORSE_sgetri_c](#)
- interface [MORSE_sgetri_Tile_Async_c](#)
- interface [MORSE_sgetri_Tile_c](#)
- interface [MORSE_sgetrs_c](#)
- interface [MORSE_sgetrs_incpiv_c](#)
- interface [MORSE_sgetrs_incpiv_Tile_Async_c](#)
- interface [MORSE_sgetrs_incpiv_Tile_c](#)
- interface [MORSE_sgetrs_Tile_Async_c](#)
- interface [MORSE_sgetrs_Tile_c](#)
- interface [MORSE_shegv_c](#)
- interface [MORSE_shegv_Tile_Async_c](#)
- interface [MORSE_shegv_Tile_c](#)
- interface [MORSE_slacpy_c](#)
- interface [MORSE_slacpy_Tile_Async_c](#)
- interface [MORSE_slacpy_Tile_c](#)
- interface [MORSE_slange_c](#)
- interface [MORSE_slange_Tile_Async_c](#)
- interface [MORSE_slange_Tile_c](#)
- interface [MORSE_slansy_c](#)
- interface [MORSE_slansy_Tile_Async_c](#)
- interface [MORSE_slansy_Tile_c](#)
- interface [MORSE_sLapack_to_Tile_Async_c](#)
- interface [MORSE_sLapack_to_Tile_c](#)
- interface [MORSE_slaset_c](#)
- interface [MORSE_slaset_Tile_Async_c](#)
- interface [MORSE_slaset_Tile_c](#)

- interface [MORSE_slaswp_c](#)
- interface [MORSE_slaswp_Tile_Async_c](#)
- interface [MORSE_slaswp_Tile_c](#)
- interface [MORSE_slaswpc_c](#)
- interface [MORSE_slaswpc_Tile_Async_c](#)
- interface [MORSE_slaswpc_Tile_c](#)
- interface [MORSE_slauum_c](#)
- interface [MORSE_slauum_Tile_Async_c](#)
- interface [MORSE_slauum_Tile_c](#)
- interface [MORSE_sorglq_c](#)
- interface [MORSE_sorglq_Tile_Async_c](#)
- interface [MORSE_sorglq_Tile_c](#)
- interface [MORSE_sorgqr_c](#)
- interface [MORSE_sorgqr_Tile_Async_c](#)
- interface [MORSE_sorgqr_Tile_c](#)
- interface [MORSE_sormlq_c](#)
- interface [MORSE_sormlq_Tile_Async_c](#)
- interface [MORSE_sormlq_Tile_c](#)
- interface [MORSE_sormqr_c](#)
- interface [MORSE_sormqr_Tile_Async_c](#)
- interface [MORSE_sormqr_Tile_c](#)
- interface [MORSE_splgsy_c](#)
- interface [MORSE_splgsy_Tile_Async_c](#)
- interface [MORSE_splgsy_Tile_c](#)
- interface [MORSE_splrnt_c](#)
- interface [MORSE_splrnt_Tile_Async_c](#)
- interface [MORSE_splrnt_Tile_c](#)
- interface [MORSE_sposv_c](#)
- interface [MORSE_sposv_Tile_Async_c](#)
- interface [MORSE_sposv_Tile_c](#)
- interface [MORSE_spotrf_c](#)
- interface [MORSE_spotrf_Tile_Async_c](#)
- interface [MORSE_spotrf_Tile_c](#)
- interface [MORSE_spotri_c](#)
- interface [MORSE_spotri_Tile_Async_c](#)
- interface [MORSE_spotri_Tile_c](#)
- interface [MORSE_spotrs_c](#)
- interface [MORSE_spotrs_Tile_Async_c](#)
- interface [MORSE_spotrs_Tile_c](#)
- interface [MORSE_ssyev_c](#)
- interface [MORSE_ssyev_Tile_Async_c](#)
- interface [MORSE_ssyev_Tile_c](#)
- interface [MORSE_ssyevd_c](#)
- interface [MORSE_ssyevd_Tile_Async_c](#)
- interface [MORSE_ssyevd_Tile_c](#)
- interface [MORSE_ssygst_c](#)
- interface [MORSE_ssygst_Tile_Async_c](#)
- interface [MORSE_ssygst_Tile_c](#)
- interface [MORSE_ssygvd_c](#)
- interface [MORSE_ssygvd_Tile_Async_c](#)
- interface [MORSE_ssygvd_Tile_c](#)
- interface [MORSE_ssymm_c](#)
- interface [MORSE_ssymm_Tile_Async_c](#)
- interface [MORSE_ssymm_Tile_c](#)
- interface [MORSE_ssy2k_c](#)

- interface [MORSE_ssy2k_Tile_Async_c](#)
- interface [MORSE_ssy2k_Tile_c](#)
- interface [MORSE_ssyrk_c](#)
- interface [MORSE_ssyrk_Tile_Async_c](#)
- interface [MORSE_ssyrk_Tile_c](#)
- interface [MORSE_ssytrd_c](#)
- interface [MORSE_ssytrd_Tile_Async_c](#)
- interface [MORSE_ssytrd_Tile_c](#)
- interface [MORSE_sTile_to_Lapack_Async_c](#)
- interface [MORSE_sTile_to_Lapack_c](#)
- interface [MORSE_strmm_c](#)
- interface [MORSE_strmm_Tile_Async_c](#)
- interface [MORSE_strmm_Tile_c](#)
- interface [MORSE_strsm_c](#)
- interface [MORSE_strsm_Tile_Async_c](#)
- interface [MORSE_strsm_Tile_c](#)
- interface [MORSE_strsmpl_c](#)
- interface [MORSE_strsmpl_Tile_Async_c](#)
- interface [MORSE_strsmpl_Tile_c](#)
- interface [MORSE_strsmrv_c](#)
- interface [MORSE_strsmrv_Tile_Async_c](#)
- interface [MORSE_strsmrv_Tile_c](#)
- interface [MORSE_strtri_c](#)
- interface [MORSE_strtri_Tile_Async_c](#)
- interface [MORSE_strtri_Tile_c](#)

Public Member Functions

- subroutine [morse_sgebrd](#) (M, N, A, LDA, D, E, T, info)
- subroutine [morse_sgelqf](#) (M, N, A, LDA, T, info)
- subroutine [morse_sgelqs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_sgels](#) (trans, M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_sgemm](#) (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_sgeqrf](#) (M, N, A, LDA, T, info)
- subroutine [morse_sgeqrs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_sgesv](#) (N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_sgesv_incpiv](#) (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_sgesvd](#) (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, T, info)
- subroutine [morse_sgetrf](#) (M, N, A, LDA, IPIV, info)
- subroutine [morse_sgetrf_incpiv](#) (M, N, A, LDA, L, IPIV, info)
- subroutine [morse_sgetrs](#) (trans, N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_sgetrs_incpiv](#) (trans, N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_ssyev](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_ssyevd](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_shegv](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_ssygvd](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_ssygst](#) (itype, uplo, N, A, LDA, B, LDB, info)
- subroutine [morse_ssytrd](#) (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ, info)
- real(kind=c_float) function [morse_slange](#) (norm, M, N, A, LDA, work)
- real(kind=c_float) function [morse_slansy](#) (norm, uplo, N, A, LDA, work)
- subroutine [morse_slaswp](#) (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine [morse_slauum](#) (uplo, N, A, LDA, info)
- subroutine [morse_splgsy](#) (bump, N, A, LDA, seed, info)
- subroutine [morse_splrnt](#) (M, N, A, LDA, seed, info)

- subroutine **morse_sposv** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_spotrf** (uplo, N, A, LDA, info)
- subroutine **morse_spotri** (uplo, N, A, LDA, info)
- subroutine **morse_spots** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_ssymm** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_ssyrk** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine **morse_ssy2k** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_strmm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_strsm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_strsmpl** (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine **morse_strtri** (uplo, diag, N, A, LDA, info)
- subroutine **morse_sorglq** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_sorgqr** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_sormlq** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_sormqr** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_sgecfi** (m, n, A, fin, imb, inb, fout, omb, onb, info)
- subroutine **morse_sgetmi** (m, n, A, fin, mb, nb, info)
- subroutine **morse_sgetri** (N, A, LDA, IPIV, info)
- subroutine **morse_slacpy** (uplo, M, N, A, LDA, B, LDB, info)
- subroutine **morse_slaset** (uplo, M, N, alpha, beta, A, LDA, info)
- subroutine **morse_slaswpc** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_strsmrv** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_sgebrd_tile** (A, D, E, T, info)
- subroutine **morse_sgelqf_tile** (A, T, info)
- subroutine **morse_sgelqs_tile** (A, T, B, info)
- subroutine **morse_sgels_tile** (trans, A, T, B, info)
- subroutine **morse_sgemm_tile** (transA, transB, alpha, A, B, beta, C, info)
- subroutine **morse_sgeqrf_tile** (A, T, info)
- subroutine **morse_sgeqrs_tile** (A, T, B, info)
- subroutine **morse_sgesv_tile** (A, IPIV, B, info)
- subroutine **morse_sgesv_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_sgesvd_tile** (jobu, jobvt, A, S, U, VT, T, info)
- subroutine **morse_sgetrf_tile** (A, IPIV, info)
- subroutine **morse_sgetrf_incpiv_tile** (A, L, IPIV, info)
- subroutine **morse_sgetrs_tile** (trans, A, IPIV, B, info)
- subroutine **morse_sgetrs_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_ssyev_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_ssyevd_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_shegv_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_ssygvd_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_ssygst_tile** (itype, uplo, A, B, info)
- subroutine **morse_ssytrd_tile** (jobz, uplo, A, D, E, T, Q, LDQ, info)
- real(kind=c_float) function **morse_slange_tile** (norm, A, work)
- real(kind=c_float) function **morse_slansy_tile** (norm, uplo, A, work)
- subroutine **morse_slaswp_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_slauum_tile** (uplo, A, info)
- subroutine **morse_splgsy_tile** (bump, A, seed, info)
- subroutine **morse_splrnt_tile** (A, seed, info)
- subroutine **morse_sposv_tile** (uplo, A, B, info)
- subroutine **morse_spotrf_tile** (uplo, A, info)
- subroutine **morse_spotri_tile** (uplo, A, info)
- subroutine **morse_spots_tile** (uplo, A, B, info)
- subroutine **morse_ssymm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_ssyrk_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_ssy2k_tile** (uplo, trans, alpha, A, B, beta, C, info)

- subroutine **morse_strmm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_strsm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_strsmpl_tile** (A, L, IPIV, B, info)
- subroutine **morse_strtri_tile** (uplo, diag, A, info)
- subroutine **morse_sorglq_tile** (A, T, B, info)
- subroutine **morse_sorgqr_tile** (A, T, B, info)
- subroutine **morse_sormlq_tile** (side, trans, A, T, B, info)
- subroutine **morse_sormqr_tile** (side, trans, A, T, B, info)
- subroutine **morse_sgetri_tile** (A, IPIV, info)
- subroutine **morse_slacpy_tile** (uplo, A, B, info)
- subroutine **morse_slaset_tile** (uplo, alpha, beta, A, info)
- subroutine **morse_slaswpc_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_strsmrv_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_sgetri_tile_async** (A, IPIV, W, sequence, request, info)
- subroutine **morse_slange_tile_async** (norm, A, work, value, sequence, request, info)
- subroutine **morse_slansy_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_sgebrd_tile_async** (A, D, E, T, sequence, request, info)
- subroutine **morse_sgecfi_async** (m, n, A, fin, imb, inb, fout, omb, onb, sequence, request, info)
- subroutine **morse_sgelqf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_sgelqs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_sgels_tile_async** (trans, A, T, B, sequence, request, info)
- subroutine **morse_sgemm_tile_async** (transA, transB, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_sgeqrf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_sgeqrs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_sgesv_tile_async** (A, IPIV, B, sequence, request, info)
- subroutine **morse_sgesv_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_sgesvd_tile_async** (jobu, jobvt, A, S, U, VT, T, sequence, request, info)
- subroutine **morse_sgetmi_async** (m, n, A, fin, mb, nb, sequence, request, info)
- subroutine **morse_sgetrf_tile_async** (A, IPIV, sequence, request, info)
- subroutine **morse_sgetrf_incpiv_tile_async** (A, L, IPIV, sequence, request, info)
- subroutine **morse_sgetrs_tile_async** (trans, A, IPIV, B, sequence, request, info)
- subroutine **morse_sgetrs_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_ssyev_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_ssyevd_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_shegv_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_ssygvd_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_ssygst_tile_async** (itype, uplo, A, B, sequence, request, info)
- subroutine **morse_ssytrd_tile_async** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request, info)
- subroutine **morse_slaswp_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_slauum_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_splgsy_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_splrnt_tile_async** (A, seed, sequence, request, info)
- subroutine **morse_sposv_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_spotrf_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_spotri_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_spotrs_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_ssymm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_ssyrk_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_ssy2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_strmm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_strsm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_strsmpl_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_strtri_tile_async** (uplo, diag, A, sequence, request, info)
- subroutine **morse_sorglq_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_sorgqr_tile_async** (A, T, B, sequence, request, info)

- subroutine **morse_sormlq_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_sormqr_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_slacpy_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_slaset_tile_async** (uplo, alpha, beta, A, sequence, request, info)
- subroutine **morse_slaswpc_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_strsmrv_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_alloc_workspace_sgelqf** (M, N, T, info)
- subroutine **morse_alloc_workspace_sgels** (M, N, T, info)
- subroutine **morse_alloc_workspace_sgeqrf** (M, N, T, info)
- subroutine **morse_alloc_workspace_sgesv_incpiv** (N, L, IPIV, info)
- subroutine **morse_alloc_workspace_sgetrf_incpiv** (M, N, L, IPIV, info)
- subroutine **morse_alloc_workspace_sgeev** (N, T, info)
- subroutine **morse_alloc_workspace_sgebrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_sgehrd** (N, T, info)
- subroutine **morse_alloc_workspace_sgesvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_ssyev** (M, N, T, info)
- subroutine **morse_alloc_workspace_ssyevd** (M, N, T, info)
- subroutine **morse_alloc_workspace_shegv** (M, N, T, info)
- subroutine **morse_alloc_workspace_ssygvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_ssytrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_sgelqf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_sgels_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_sgeqrf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_sgesv_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_sgetrf_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_sgetri_tile_async** (A, W, info)
- subroutine **morse_slapack_to_tile** (Af77, LDA, A, info)
- subroutine **morse_stile_to_lapack** (A, Af77, LDA, info)
- subroutine **morse_slapack_to_tile_async** (Af77, LDA, A, sequence, request, info)
- subroutine **morse_stile_to_lapack_async** (A, Af77, LDA, sequence, request, info)

2.421 morse::MORSE_Sequence_Create_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sequence_create_c** (seq)

2.422 morse::MORSE_Sequence_Destroy_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sequence_destroy_c** (seq)

2.423 morse::MORSE_Sequence_Flush_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sequence_flush_c** (seq, req)

2.424 `morse_sequence_s` Struct Reference

```
#include <morse_struct.h>
```

Data Fields

- `MORSE_bool` **status**
- `MORSE_request_t` * **request**

2.424.1 Detailed Description

MORSE sequence uniquely identifies a set of asynchronous function calls sharing common exception handling.

2.425 `morse::MORSE_Sequence_Wait_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sequence_wait_c` (seq)

2.426 `morse::MORSE_Set_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_set_c` (param, pval)

2.427 `morse_s::MORSE_sgebrd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgebrd_c` (M, N, A, LDA, D, E, descT)

2.428 `morse_s::MORSE_sgebrd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgebrd_tile_async_c` (A, D, E, T, sequence, request)

2.429 `morse_s::MORSE_sgebrd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgebrd_tile_c` (A, D, E, T)

2.430 `morse_s::MORSE_sgecfi_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgecfi_async_c` (`m`, `n`, `A`, `f_in`, `imb`, `inb`, `f_out`, `omb`, `onb`, `sequence`, `request`)

2.431 `morse_s::MORSE_sgecfi_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgecfi_c` (`m`, `n`, `A`, `fin`, `imb`, `inb`, `fout`, `omb`, `onb`)

2.432 `morse_s::MORSE_sgelqf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgelqf_c` (`M`, `N`, `A`, `LDA`, `descT`)

2.433 `morse_s::MORSE_sgelqf_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgelqf_tile_async_c` (`A`, `T`, `sequence`, `request`)

2.434 `morse_s::MORSE_sgelqf_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgelqf_tile_c` (`A`, `T`)

2.435 `morse_s::MORSE_sgelqs_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgelqs_c` (`M`, `N`, `NRHS`, `A`, `LDA`, `descT`, `B`, `LDB`)

2.436 `morse_s::MORSE_sgelqs_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgelqs_tile_async_c` (`A`, `T`, `B`, `sequence`, `request`)

2.437 morse_s::MORSE_sgelqs_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgelqs_tile_c** (A, T, B)

2.438 morse_s::MORSE_sgels_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgels_c** (trans, M, N, NRHS, A, LDA, descT, B, LDB)

2.439 morse_s::MORSE_sgels_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgels_tile_async_c** (trans, A, T, B, sequence, request)

2.440 morse_s::MORSE_sgels_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgels_tile_c** (trans, A, T, B)

2.441 morse_s::MORSE_sgemm_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgemm_c** (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.442 morse_s::MORSE_sgemm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgemm_tile_async_c** (transA, transB, alpha, A, B, beta, C, sequence, request)

2.443 morse_s::MORSE_sgemm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgemm_tile_c** (transA, transB, alpha, A, B, beta, C)

2.444 `morse_s::MORSE_sgeqrf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgeqrf_c` (M, N, A, LDA, descT)

2.445 `morse_s::MORSE_sgeqrf_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgeqrf_tile_async_c` (A, T, sequence, request)

2.446 `morse_s::MORSE_sgeqrf_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgeqrf_tile_c` (A, T)

2.447 `morse_s::MORSE_sgeqrs_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgeqrs_c` (M, N, NRHS, A, LDA, descT, B, LDB)

2.448 `morse_s::MORSE_sgeqrs_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgeqrs_tile_async_c` (A, T, B, sequence, request)

2.449 `morse_s::MORSE_sgeqrs_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgeqrs_tile_c` (A, T, B)

2.450 `morse_s::MORSE_sgesv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgesv_c` (N, NRHS, A, LDA, IPIV, B, LDB)

2.451 `morse_s::MORSE_sgesv_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesv_incpiv_c` (N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.452 `morse_s::MORSE_sgesv_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesv_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)

2.453 `morse_s::MORSE_sgesv_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesv_incpiv_tile_c` (A, L, IPIV, B)

2.454 `morse_s::MORSE_sgesv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesv_tile_async_c` (A, IPIV, B, sequence, request)

2.455 `morse_s::MORSE_sgesv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesv_tile_c` (A, IPIV, B)

2.456 `morse_s::MORSE_sgesvd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesvd_c` (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, descT)

2.457 `morse_s::MORSE_sgesvd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgesvd_tile_async_c` (jobu, jobvt, A, S, U, VT, T, sequence, request)

2.458 `morse_s::MORSE_sgesvd_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgesvd_tile_c` (`jobu`, `jobvt`, `A`, `S`, `U`, `VT`, `T`)

2.459 `morse_s::MORSE_sgetmi_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgetmi_async_c` (`m`, `n`, `A`, `f_in`, `mb`, `inb`, `sequence`, `request`)

2.460 `morse_s::MORSE_sgetmi_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgetmi_c` (`m`, `n`, `A`, `fin`, `mb`, `nb`)

2.461 `morse_s::MORSE_sgetrf_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgetrf_c` (`M`, `N`, `A`, `LDA`, `IPIV`)

2.462 `morse_s::MORSE_sgetrf_incpiv_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgetrf_incpiv_c` (`M`, `N`, `A`, `LDA`, `descL`, `IPIV`)

2.463 `morse_s::MORSE_sgetrf_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgetrf_incpiv_tile_async_c` (`A`, `L`, `IPIV`, `sequence`, `request`)

2.464 `morse_s::MORSE_sgetrf_incpiv_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sgetrf_incpiv_tile_c` (`A`, `L`, `IPIV`)

2.465 morse_s::MORSE_sgetrf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetrf_tile_async_c** (A, IPIV, sequence, request)

2.466 morse_s::MORSE_sgetrf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetrf_tile_c** (A, IPIV)

2.467 morse_s::MORSE_sgetri_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetri_c** (N, A, LDA, IPIV)

2.468 morse_s::MORSE_sgetri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetri_tile_async_c** (A, IPIV, W, sequence, request)

2.469 morse_s::MORSE_sgetri_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetri_tile_c** (A, IPIV)

2.470 morse_s::MORSE_sgetrs_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetrs_c** (trans, N, NRHS, A, LDA, IPIV, B, LDB)

2.471 morse_s::MORSE_sgetrs_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sgetrs_incpiv_c** (trans, N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.472 `morse_s::MORSE_sgetrs_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgetrs_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)

2.473 `morse_s::MORSE_sgetrs_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgetrs_incpiv_tile_c` (A, L, IPIV, B)

2.474 `morse_s::MORSE_sgetrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgetrs_tile_async_c` (trans, A, IPIV, B, sequence, request)

2.475 `morse_s::MORSE_sgetrs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sgetrs_tile_c` (trans, A, IPIV, B)

2.476 `morse_s::MORSE_shegv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_shegv_c` (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.477 `morse_s::MORSE_shegv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_shegv_tile_async_c` (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.478 `morse_s::MORSE_shegv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_shegv_tile_c` (itype, jobz, uplo, A, B, W, T, Q)

2.479 `morse_s::MORSE_slacpy_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slacpy_c` (uplo, M, N, A, LDA, B, LDB)

2.480 `morse_s::MORSE_slacpy_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slacpy_tile_async_c` (uplo, A, B, sequence, request)

2.481 `morse_s::MORSE_slacpy_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slacpy_tile_c` (uplo, A, B)

2.482 `morse_s::MORSE_slange_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_slange_c` (norm, M, N, A, LDA, work)

2.483 `morse_s::MORSE_slange_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slange_tile_async_c` (norm, A, work, value, sequence, request)

2.484 `morse_s::MORSE_slange_Tile_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_slange_tile_c` (norm, A, work)

2.485 `morse_s::MORSE_slansy_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_slansy_c` (norm, uplo, N, A, LDA, work)

2.486 `morse_s::MORSE_slansy_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slansy_tile_async_c` (norm, uplo, A, work, value, sequence, request)

2.487 `morse_s::MORSE_slansy_Tile_c` Interface Reference

Public Member Functions

- real(kind=c_float) function `morse_slansy_tile_c` (norm, uplo, A, work)

2.488 `morse_s::MORSE_sLapack_to_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slapack_to_tile_async_c` (Af77, LDA, A, sequence, request)

2.489 `morse_s::MORSE_sLapack_to_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slapack_to_tile_c` (Af77, LDA, A)

2.490 `morse_s::MORSE_slaset_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slaset_c` (uplo, M, N, alpha, beta, A, LDA)

2.491 `morse_s::MORSE_slaset_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slaset_tile_async_c` (uplo, alpha, beta, A, sequence, request)

2.492 `morse_s::MORSE_slaset_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_slaset_tile_c` (uplo, alpha, beta, A)

2.493 morse_s::MORSE_slaswp_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slaswp_c** (N, A, LDA, K1, K2, IPIV, INCX)

2.494 morse_s::MORSE_slaswp_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slaswp_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)

2.495 morse_s::MORSE_slaswp_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slaswp_tile_c** (A, K1, K2, IPIV, INCX)

2.496 morse_s::MORSE_slaswpc_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slaswpc_c** (N, A, LDA, K1, K2, IPIV, INCX)

2.497 morse_s::MORSE_slaswpc_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slaswpc_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)

2.498 morse_s::MORSE_slaswpc_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slaswpc_tile_c** (A, K1, K2, IPIV, INCX)

2.499 morse_s::MORSE_slauum_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_slauum_c** (uplo, N, A, LDA)

2.500 `morse_s::MORSE_slauum_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_slauum_tile_async_c` (uplo, A, sequence, request)

2.501 `morse_s::MORSE_slauum_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_slauum_tile_c` (uplo, A)

2.502 `morse_s::MORSE_sorglq_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sorglq_c` (M, N, K, A, LDA, descT, B, LDB)

2.503 `morse_s::MORSE_sorglq_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sorglq_tile_async_c` (A, T, B, sequence, request)

2.504 `morse_s::MORSE_sorglq_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sorglq_tile_c` (A, T, B)

2.505 `morse_s::MORSE_sorgqr_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sorgqr_c` (M, N, K, A, LDA, descT, B, LDB)

2.506 `morse_s::MORSE_sorgqr_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_sorgqr_tile_async_c` (A, T, B, sequence, request)

2.507 morse_s::MORSE_sorgqr_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sorgqr_tile_c** (A, T, B)

2.508 morse_s::MORSE_sormlq_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sormlq_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.509 morse_s::MORSE_sormlq_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sormlq_tile_async_c** (side, trans, A, T, B, sequence, request)

2.510 morse_s::MORSE_sormlq_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sormlq_tile_c** (side, trans, A, T, B)

2.511 morse_s::MORSE_sormqr_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sormqr_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.512 morse_s::MORSE_sormqr_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sormqr_tile_async_c** (side, trans, A, T, B, sequence, request)

2.513 morse_s::MORSE_sormqr_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sormqr_tile_c** (side, trans, A, T, B)

2.514 `morse_s::MORSE_splgsy_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_splgsy_c` (bump, N, A, LDA, seed)

2.515 `morse_s::MORSE_splgsy_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_splgsy_tile_async_c` (bump, A, seed, sequence, request)

2.516 `morse_s::MORSE_splgsy_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_splgsy_tile_c` (bump, A, seed)

2.517 `morse_s::MORSE_splrnt_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_splrnt_c` (M, N, A, LDA, seed)

2.518 `morse_s::MORSE_splrnt_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_splrnt_tile_async_c` (A, seed, sequence, request)

2.519 `morse_s::MORSE_splrnt_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_splrnt_tile_c` (A, seed)

2.520 `morse_s::MORSE_sposv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_sposv_c` (uplo, N, NRHS, A, LDA, B, LDB)

2.521 morse_s::MORSE_sposv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sposv_tile_async_c** (uplo, A, B, sequence, request)

2.522 morse_s::MORSE_sposv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_sposv_tile_c** (uplo, A, B)

2.523 morse_s::MORSE_spotrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_spotrf_c** (uplo, N, A, LDA)

2.524 morse_s::MORSE_spotrf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_spotrf_tile_async_c** (uplo, A, sequence, request)

2.525 morse_s::MORSE_spotrf_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_spotrf_tile_c** (uplo, A)

2.526 morse_s::MORSE_spotri_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_spotri_c** (uplo, N, A, LDA)

2.527 morse_s::MORSE_spotri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_spotri_tile_async_c** (uplo, A, sequence, request)

2.528 `morse_s::MORSE_spotri_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_spotri_tile_c` (uplo, A)

2.529 `morse_s::MORSE_spotrs_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_spotrs_c` (uplo, N, NRHS, A, LDA, B, LDB)

2.530 `morse_s::MORSE_spotrs_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_spotrs_tile_async_c` (uplo, A, B, sequence, request)

2.531 `morse_s::MORSE_spotrs_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_spotrs_tile_c` (uplo, A, B)

2.532 `morse_s::MORSE_ssyev_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ssyev_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.533 `morse_s::MORSE_ssyev_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ssyev_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.534 `morse_s::MORSE_ssyev_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_ssyev_tile_c` (jobz, uplo, A, W, T, Q, LDQ)

2.535 morse_s::MORSE_ssyevd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssyevd_c** (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.536 morse_s::MORSE_ssyevd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssyevd_tile_async_c** (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.537 morse_s::MORSE_ssyevd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssyevd_tile_c** (jobz, uplo, A, W, T, Q, LDQ)

2.538 morse_s::MORSE_ssygst_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssygst_c** (itype, uplo, N, A, LDA, B, LDB)

2.539 morse_s::MORSE_ssygst_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssygst_tile_async_c** (itype, uplo, A, B, sequence, request)

2.540 morse_s::MORSE_ssygst_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssygst_tile_c** (itype, uplo, A, B)

2.541 morse_s::MORSE_ssygvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssygvd_c** (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.542 `morse_s::MORSE_ssygvd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssygvd_tile_async_c` (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.543 `morse_s::MORSE_ssygvd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssygvd_tile_c` (itype, jobz, uplo, A, B, W, T, Q)

2.544 `morse_s::MORSE_ssymm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssymm_c` (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC)

2.545 `morse_s::MORSE_ssymm_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssymm_tile_async_c` (side, uplo, alpha, A, B, beta, C, sequence, request)

2.546 `morse_s::MORSE_ssymm_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssymm_tile_c` (side, uplo, alpha, A, B, beta, C)

2.547 `morse_s::MORSE_ssy2k_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssy2k_c` (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.548 `morse_s::MORSE_ssy2k_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ssy2k_tile_async_c` (uplo, trans, alpha, A, B, beta, C, sequence, request)

2.549 morse_s::MORSE_ssy2k_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssy2k_tile_c** (uplo, trans, alpha, A, B, beta, C)

2.550 morse_s::MORSE_ssyk_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssyk_c** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)

2.551 morse_s::MORSE_ssyk_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssyk_tile_async_c** (uplo, trans, alpha, A, beta, C, sequence, request)

2.552 morse_s::MORSE_ssyk_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssyk_tile_c** (uplo, trans, alpha, A, beta, C)

2.553 morse_s::MORSE_ssytrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssytrd_c** (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ)

2.554 morse_s::MORSE_ssytrd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssytrd_tile_async_c** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request)

2.555 morse_s::MORSE_ssytrd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ssytrd_tile_c** (jobz, uplo, A, D, E, T, Q, LDQ)

2.556 `morse_starpu_ws_s` Struct Reference

Data Fields

- `size_t` **size**
- `int` **memory_location**
- `int` **which_workers**
- `void *` **workspaces** [STARPU_NMAXWORKERS]

2.557 `morse_s::MORSE_sTile_to_Lapack_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function **`morse_stile_to_lapack_async_c`** (A, Af77, LDA, sequence, request)

2.558 `morse_s::MORSE_sTile_to_Lapack_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function **`morse_stile_to_lapack_c`** (A, Af77, LDA)

2.559 `morse_s::MORSE_strmm_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function **`morse_strmm_c`** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.560 `morse_s::MORSE_strmm_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function **`morse_strmm_tile_async_c`** (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.561 `morse_s::MORSE_strmm_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function **`morse_strmm_tile_c`** (side, uplo, transA, diag, alpha, A, B)

2.562 `morse_s::MORSE_strsm_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function **`morse_strsm_c`** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.563 morse_s::MORSE_strsm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsm_tile_async_c** (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.564 morse_s::MORSE_strsm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsm_tile_c** (side, uplo, transA, diag, alpha, A, B)

2.565 morse_s::MORSE_strsmpl_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsmpl_c** (N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.566 morse_s::MORSE_strsmpl_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsmpl_tile_async_c** (A, L, IPIV, B, sequence, request)

2.567 morse_s::MORSE_strsmpl_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsmpl_tile_c** (A, L, IPIV, B)

2.568 morse_s::MORSE_strsmrv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsmrv_c** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.569 morse_s::MORSE_strsmrv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_strsmrv_tile_async_c** (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.570 `morse_s::MORSE_strsmrv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_strsmrv_tile_c` (side, uplo, transA, diag, alpha, A, B)

2.571 `morse_s::MORSE_strtri_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_strtri_c` (uplo, diag, N, A, LDA)

2.572 `morse_s::MORSE_strtri_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_strtri_tile_async_c` (uplo, diag, A, sequence, request)

2.573 `morse_s::MORSE_strtri_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_strtri_tile_c` (uplo, diag, A)

2.574 `morse::morse_tile_to_lapack` Interface Reference

Public Member Functions

- subroutine `morse_tile_to_lapack_s` (a_pma, a_lpk, lda, info)
- subroutine `morse_tile_to_lapack_d` (a_pma, a_lpk, lda, info)
- subroutine `morse_tile_to_lapack_cpx` (a_pma, a_lpk, lda, info)
- subroutine `morse_tile_to_lapack_z` (a_pma, a_lpk, lda, info)

2.575 `morse::MORSE_Tile_to_Lapack_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_tile_to_lapack_c` (a_pma, a_lpk, lda)

2.576 `morse::MORSE_Version_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_version_c` (maj, min, mic)

2.577 morse_z Module Reference

Data Types

- interface [MORSE_Alloc_Workspace_zgebrd_c](#)
- interface [MORSE_Alloc_Workspace_zgeev_c](#)
- interface [MORSE_Alloc_Workspace_zgehrd_c](#)
- interface [MORSE_Alloc_Workspace_zgelqf_c](#)
- interface [MORSE_Alloc_Workspace_zgelqf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_zgels_c](#)
- interface [MORSE_Alloc_Workspace_zgels_Tile_c](#)
- interface [MORSE_Alloc_Workspace_zgeqrf_c](#)
- interface [MORSE_Alloc_Workspace_zgeqrf_Tile_c](#)
- interface [MORSE_Alloc_Workspace_zgesv_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_zgesv_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_zgesvd_c](#)
- interface [MORSE_Alloc_Workspace_zgetrf_incpiv_c](#)
- interface [MORSE_Alloc_Workspace_zgetrf_incpiv_Tile_c](#)
- interface [MORSE_Alloc_Workspace_zgetri_Tile_Async_c](#)
- interface [MORSE_Alloc_Workspace_zheev_c](#)
- interface [MORSE_Alloc_Workspace_zheevd_c](#)
- interface [MORSE_Alloc_Workspace_zhegv_c](#)
- interface [MORSE_Alloc_Workspace_zhegvd_c](#)
- interface [MORSE_Alloc_Workspace_zhetrd_c](#)
- interface [MORSE_zgebrd_c](#)
- interface [MORSE_zgebrd_Tile_Async_c](#)
- interface [MORSE_zgebrd_Tile_c](#)
- interface [MORSE_zgecfi_Async_c](#)
- interface [MORSE_zgecfi_c](#)
- interface [MORSE_zgelqf_c](#)
- interface [MORSE_zgelqf_Tile_Async_c](#)
- interface [MORSE_zgelqf_Tile_c](#)
- interface [MORSE_zgelqs_c](#)
- interface [MORSE_zgelqs_Tile_Async_c](#)
- interface [MORSE_zgelqs_Tile_c](#)
- interface [MORSE_zgels_c](#)
- interface [MORSE_zgels_Tile_Async_c](#)
- interface [MORSE_zgels_Tile_c](#)
- interface [MORSE_zgemm_c](#)
- interface [MORSE_zgemm_Tile_Async_c](#)
- interface [MORSE_zgemm_Tile_c](#)
- interface [MORSE_zgeqrf_c](#)
- interface [MORSE_zgeqrf_Tile_Async_c](#)
- interface [MORSE_zgeqrf_Tile_c](#)
- interface [MORSE_zgeqrs_c](#)
- interface [MORSE_zgeqrs_Tile_Async_c](#)
- interface [MORSE_zgeqrs_Tile_c](#)
- interface [MORSE_zgesv_c](#)
- interface [MORSE_zgesv_incpiv_c](#)
- interface [MORSE_zgesv_incpiv_Tile_Async_c](#)
- interface [MORSE_zgesv_incpiv_Tile_c](#)
- interface [MORSE_zgesv_Tile_Async_c](#)
- interface [MORSE_zgesv_Tile_c](#)
- interface [MORSE_zgesvd_c](#)

- interface [MORSE_zgesvd_Tile_Async_c](#)
- interface [MORSE_zgesvd_Tile_c](#)
- interface [MORSE_zgetmi_Async_c](#)
- interface [MORSE_zgetmi_c](#)
- interface [MORSE_zgetrf_c](#)
- interface [MORSE_zgetrf_incpiv_c](#)
- interface [MORSE_zgetrf_incpiv_Tile_Async_c](#)
- interface [MORSE_zgetrf_incpiv_Tile_c](#)
- interface [MORSE_zgetrf_Tile_Async_c](#)
- interface [MORSE_zgetrf_Tile_c](#)
- interface [MORSE_zgetri_c](#)
- interface [MORSE_zgetri_Tile_Async_c](#)
- interface [MORSE_zgetri_Tile_c](#)
- interface [MORSE_zgetrs_c](#)
- interface [MORSE_zgetrs_incpiv_c](#)
- interface [MORSE_zgetrs_incpiv_Tile_Async_c](#)
- interface [MORSE_zgetrs_incpiv_Tile_c](#)
- interface [MORSE_zgetrs_Tile_Async_c](#)
- interface [MORSE_zgetrs_Tile_c](#)
- interface [MORSE_zheev_c](#)
- interface [MORSE_zheev_Tile_Async_c](#)
- interface [MORSE_zheev_Tile_c](#)
- interface [MORSE_zheevd_c](#)
- interface [MORSE_zheevd_Tile_Async_c](#)
- interface [MORSE_zheevd_Tile_c](#)
- interface [MORSE_zhegst_c](#)
- interface [MORSE_zhegst_Tile_Async_c](#)
- interface [MORSE_zhegst_Tile_c](#)
- interface [MORSE_zhegv_c](#)
- interface [MORSE_zhegv_Tile_Async_c](#)
- interface [MORSE_zhegv_Tile_c](#)
- interface [MORSE_zhegvd_c](#)
- interface [MORSE_zhegvd_Tile_Async_c](#)
- interface [MORSE_zhegvd_Tile_c](#)
- interface [MORSE_zhemm_c](#)
- interface [MORSE_zhemm_Tile_Async_c](#)
- interface [MORSE_zhemm_Tile_c](#)
- interface [MORSE_zher2k_c](#)
- interface [MORSE_zher2k_Tile_Async_c](#)
- interface [MORSE_zher2k_Tile_c](#)
- interface [MORSE_zherk_c](#)
- interface [MORSE_zherk_Tile_Async_c](#)
- interface [MORSE_zherk_Tile_c](#)
- interface [MORSE_zhetrd_c](#)
- interface [MORSE_zhetrd_Tile_Async_c](#)
- interface [MORSE_zhetrd_Tile_c](#)
- interface [MORSE_zlacpy_c](#)
- interface [MORSE_zlacpy_Tile_Async_c](#)
- interface [MORSE_zlacpy_Tile_c](#)
- interface [MORSE_zlange_c](#)
- interface [MORSE_zlange_Tile_Async_c](#)
- interface [MORSE_zlange_Tile_c](#)
- interface [MORSE_zlanhe_c](#)
- interface [MORSE_zlanhe_Tile_Async_c](#)
- interface [MORSE_zlanhe_Tile_c](#)

- interface [MORSE_zlansy_c](#)
- interface [MORSE_zlansy_Tile_Async_c](#)
- interface [MORSE_zlansy_Tile_c](#)
- interface [MORSE_zLapack_to_Tile_Async_c](#)
- interface [MORSE_zLapack_to_Tile_c](#)
- interface [MORSE_zlaset_c](#)
- interface [MORSE_zlaset_Tile_Async_c](#)
- interface [MORSE_zlaset_Tile_c](#)
- interface [MORSE_zlaswp_c](#)
- interface [MORSE_zlaswp_Tile_Async_c](#)
- interface [MORSE_zlaswp_Tile_c](#)
- interface [MORSE_zlaswpc_c](#)
- interface [MORSE_zlaswpc_Tile_Async_c](#)
- interface [MORSE_zlaswpc_Tile_c](#)
- interface [MORSE_zlauum_c](#)
- interface [MORSE_zlauum_Tile_Async_c](#)
- interface [MORSE_zlauum_Tile_c](#)
- interface [MORSE_zplghe_c](#)
- interface [MORSE_zplghe_Tile_Async_c](#)
- interface [MORSE_zplghe_Tile_c](#)
- interface [MORSE_zplgsy_c](#)
- interface [MORSE_zplgsy_Tile_Async_c](#)
- interface [MORSE_zplgsy_Tile_c](#)
- interface [MORSE_zplrnt_c](#)
- interface [MORSE_zplrnt_Tile_Async_c](#)
- interface [MORSE_zplrnt_Tile_c](#)
- interface [MORSE_zposv_c](#)
- interface [MORSE_zposv_Tile_Async_c](#)
- interface [MORSE_zposv_Tile_c](#)
- interface [MORSE_zpotrf_c](#)
- interface [MORSE_zpotrf_Tile_Async_c](#)
- interface [MORSE_zpotrf_Tile_c](#)
- interface [MORSE_zpotri_c](#)
- interface [MORSE_zpotri_Tile_Async_c](#)
- interface [MORSE_zpotri_Tile_c](#)
- interface [MORSE_zpotrs_c](#)
- interface [MORSE_zpotrs_Tile_Async_c](#)
- interface [MORSE_zpotrs_Tile_c](#)
- interface [MORSE_zsymm_c](#)
- interface [MORSE_zsymm_Tile_Async_c](#)
- interface [MORSE_zsymm_Tile_c](#)
- interface [MORSE_zsyr2k_c](#)
- interface [MORSE_zsyr2k_Tile_Async_c](#)
- interface [MORSE_zsyr2k_Tile_c](#)
- interface [MORSE_zsyrk_c](#)
- interface [MORSE_zsyrk_Tile_Async_c](#)
- interface [MORSE_zsyrk_Tile_c](#)
- interface [MORSE_zTile_to_Lapack_Async_c](#)
- interface [MORSE_zTile_to_Lapack_c](#)
- interface [MORSE_ztrmm_c](#)
- interface [MORSE_ztrmm_Tile_Async_c](#)
- interface [MORSE_ztrmm_Tile_c](#)
- interface [MORSE_ztrsm_c](#)
- interface [MORSE_ztrsm_Tile_Async_c](#)
- interface [MORSE_ztrsm_Tile_c](#)

- interface [MORSE_ztrsmpl_c](#)
- interface [MORSE_ztrsmpl_Tile_Async_c](#)
- interface [MORSE_ztrsmpl_Tile_c](#)
- interface [MORSE_ztrsmrv_c](#)
- interface [MORSE_ztrsmrv_Tile_Async_c](#)
- interface [MORSE_ztrsmrv_Tile_c](#)
- interface [MORSE_ztrtri_c](#)
- interface [MORSE_ztrtri_Tile_Async_c](#)
- interface [MORSE_ztrtri_Tile_c](#)
- interface [MORSE_zunglq_c](#)
- interface [MORSE_zunglq_Tile_Async_c](#)
- interface [MORSE_zunglq_Tile_c](#)
- interface [MORSE_zungqr_c](#)
- interface [MORSE_zungqr_Tile_Async_c](#)
- interface [MORSE_zungqr_Tile_c](#)
- interface [MORSE_zunmlq_c](#)
- interface [MORSE_zunmlq_Tile_Async_c](#)
- interface [MORSE_zunmlq_Tile_c](#)
- interface [MORSE_zunmqr_c](#)
- interface [MORSE_zunmqr_Tile_Async_c](#)
- interface [MORSE_zunmqr_Tile_c](#)

Public Member Functions

- subroutine [morse_zgebrd](#) (M, N, A, LDA, D, E, T, info)
- subroutine [morse_zgelqf](#) (M, N, A, LDA, T, info)
- subroutine [morse_zgelqs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_zgels](#) (trans, M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_zgemm](#) (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_zgeqrf](#) (M, N, A, LDA, T, info)
- subroutine [morse_zgeqrs](#) (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine [morse_zgesv](#) (N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_zgesv_incpiv](#) (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_zgesvd](#) (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, T, info)
- subroutine [morse_zgetrf](#) (M, N, A, LDA, IPIV, info)
- subroutine [morse_zgetrf_incpiv](#) (M, N, A, LDA, L, IPIV, info)
- subroutine [morse_zgetrs](#) (trans, N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine [morse_zgetrs_incpiv](#) (trans, N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine [morse_zhemm](#) (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_zherk](#) (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine [morse_zher2k](#) (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine [morse_zheev](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_zheevd](#) (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine [morse_zhegv](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_zhegvd](#) (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine [morse_zhegst](#) (itype, uplo, N, A, LDA, B, LDB, info)
- subroutine [morse_zhetrd](#) (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ, info)
- real(kind=c_double) function [morse_zlange](#) (norm, M, N, A, LDA, work)
- real(kind=c_double) function [morse_zlanhe](#) (norm, uplo, N, A, LDA, work)
- real(kind=c_double) function [morse_zlansy](#) (norm, uplo, N, A, LDA, work)
- subroutine [morse_zlaswp](#) (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine [morse_zlauum](#) (uplo, N, A, LDA, info)
- subroutine [morse_zplghe](#) (bump, N, A, LDA, seed, info)
- subroutine [morse_zplgsy](#) (bump, N, A, LDA, seed, info)

- subroutine **morse_zplrnt** (M, N, A, LDA, seed, info)
- subroutine **morse_zposv** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_zpotrf** (uplo, N, A, LDA, info)
- subroutine **morse_zpotri** (uplo, N, A, LDA, info)
- subroutine **morse_zpotrs** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_zsymm** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_zsyrk** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine **morse_zsyr2k** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_ztrmm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_ztrsm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_ztrsmpl** (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine **morse_ztrtri** (uplo, diag, N, A, LDA, info)
- subroutine **morse_zunglq** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zungqr** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zunmlq** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zunmqr** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zgecfi** (m, n, A, fin, imb, inb, fout, omb, onb, info)
- subroutine **morse_zgetmi** (m, n, A, fin, mb, nb, info)
- subroutine **morse_zgetri** (N, A, LDA, IPIV, info)
- subroutine **morse_zlacpy** (uplo, M, N, A, LDA, B, LDB, info)
- subroutine **morse_zlaset** (uplo, M, N, alpha, beta, A, LDA, info)
- subroutine **morse_zlaswpc** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_ztrsmrv** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_zgebrd_tile** (A, D, E, T, info)
- subroutine **morse_zgelqf_tile** (A, T, info)
- subroutine **morse_zgelqs_tile** (A, T, B, info)
- subroutine **morse_zgels_tile** (trans, A, T, B, info)
- subroutine **morse_zgemm_tile** (transA, transB, alpha, A, B, beta, C, info)
- subroutine **morse_zgeqrf_tile** (A, T, info)
- subroutine **morse_zgeqrs_tile** (A, T, B, info)
- subroutine **morse_zgesv_tile** (A, IPIV, B, info)
- subroutine **morse_zgesv_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_zgesvd_tile** (jobu, jobvt, A, S, U, VT, T, info)
- subroutine **morse_zgetrf_tile** (A, IPIV, info)
- subroutine **morse_zgetrf_incpiv_tile** (A, L, IPIV, info)
- subroutine **morse_zgetrs_tile** (trans, A, IPIV, B, info)
- subroutine **morse_zgetrs_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_zhemm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_zherk_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_zher2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_zheev_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_zheevd_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_zhegv_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_zhegvd_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_zhegst_tile** (itype, uplo, A, B, info)
- subroutine **morse_zhetrd_tile** (jobz, uplo, A, D, E, T, Q, LDQ, info)
- real(kind=c_double) function **morse_zlange_tile** (norm, A, work)
- real(kind=c_double) function **morse_zlanhe_tile** (norm, uplo, A, work)
- real(kind=c_double) function **morse_zlansy_tile** (norm, uplo, A, work)
- subroutine **morse_zlaswp_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_zlauum_tile** (uplo, A, info)
- subroutine **morse_zplghe_tile** (bump, A, seed, info)
- subroutine **morse_zplgsy_tile** (bump, A, seed, info)
- subroutine **morse_zplrnt_tile** (A, seed, info)
- subroutine **morse_zposv_tile** (uplo, A, B, info)

- subroutine **morse_zpotrf_tile** (uplo, A, info)
- subroutine **morse_zpotri_tile** (uplo, A, info)
- subroutine **morse_zpotrs_tile** (uplo, A, B, info)
- subroutine **morse_zsymm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_zsyrk_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_zsyr2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_ztrmm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_ztrsm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_ztrsmpl_tile** (A, L, IPIV, B, info)
- subroutine **morse_ztrtri_tile** (uplo, diag, A, info)
- subroutine **morse_zunglq_tile** (A, T, B, info)
- subroutine **morse_zungqr_tile** (A, T, B, info)
- subroutine **morse_zunmlq_tile** (side, trans, A, T, B, info)
- subroutine **morse_zunmqr_tile** (side, trans, A, T, B, info)
- subroutine **morse_zgetri_tile** (A, IPIV, info)
- subroutine **morse_zlacpy_tile** (uplo, A, B, info)
- subroutine **morse_zlaset_tile** (uplo, alpha, beta, A, info)
- subroutine **morse_zlaswpc_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_ztrsmrv_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_zgetri_tile_async** (A, IPIV, W, sequence, request, info)
- subroutine **morse_zlange_tile_async** (norm, A, work, value, sequence, request, info)
- subroutine **morse_zlansy_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_zgebrd_tile_async** (A, D, E, T, sequence, request, info)
- subroutine **morse_zgecfi_async** (m, n, A, fin, imb, inb, fout, omb, onb, sequence, request, info)
- subroutine **morse_zgelqf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_zgelqs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zgels_tile_async** (trans, A, T, B, sequence, request, info)
- subroutine **morse_zgemm_tile_async** (transA, transB, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zgeqrf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_zgeqrs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zgesv_tile_async** (A, IPIV, B, sequence, request, info)
- subroutine **morse_zgesv_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_zgesvd_tile_async** (jobu, jobvt, A, S, U, VT, T, sequence, request, info)
- subroutine **morse_zgetmi_async** (m, n, A, fin, mb, nb, sequence, request, info)
- subroutine **morse_zgetrf_tile_async** (A, IPIV, sequence, request, info)
- subroutine **morse_zgetrf_incpiv_tile_async** (A, L, IPIV, sequence, request, info)
- subroutine **morse_zgetrs_tile_async** (trans, A, IPIV, B, sequence, request, info)
- subroutine **morse_zgetrs_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_zhemm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zherk_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_zher2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zheev_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_zheevd_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_zhegv_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_zhegvd_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_zhegst_tile_async** (itype, uplo, A, B, sequence, request, info)
- subroutine **morse_zhetrd_tile_async** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request, info)
- subroutine **morse_zlanhe_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_zlaswp_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_zlauum_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_zplghe_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_zplgsy_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_zplrnt_tile_async** (A, seed, sequence, request, info)
- subroutine **morse_zposv_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_zpotrf_tile_async** (uplo, A, sequence, request, info)

- subroutine **morse_zpotri_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_zpotrs_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_zsymm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zsyrk_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_zsyr2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_ztrmm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_ztrsm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_ztrsmpl_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_ztrtri_tile_async** (uplo, diag, A, sequence, request, info)
- subroutine **morse_zunglq_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zungqr_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zunmlq_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_zunmqr_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_zlacpy_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_zlaset_tile_async** (uplo, alpha, beta, A, sequence, request, info)
- subroutine **morse_zlaswpc_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_ztrsmrv_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_alloc_workspace_zgelqf** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgels** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgeqrf** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgesv_incpiv** (N, L, IPIV, info)
- subroutine **morse_alloc_workspace_zgetrf_incpiv** (M, N, L, IPIV, info)
- subroutine **morse_alloc_workspace_zgeev** (N, T, info)
- subroutine **morse_alloc_workspace_zgebrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgehrd** (N, T, info)
- subroutine **morse_alloc_workspace_zgesvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zheev** (M, N, T, info)
- subroutine **morse_alloc_workspace_zheevd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zhegv** (M, N, T, info)
- subroutine **morse_alloc_workspace_zhegvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zhetrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgelqf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_zgels_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_zgeqrf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_zgesv_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_zgetrf_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_zgetri_tile_async** (A, W, info)
- subroutine **morse_zlapack_to_tile** (Af77, LDA, A, info)
- subroutine **morse_ztile_to_lapack** (A, Af77, LDA, info)
- subroutine **morse_zlapack_to_tile_async** (Af77, LDA, A, sequence, request, info)
- subroutine **morse_ztile_to_lapack_async** (A, Af77, LDA, sequence, request, info)
- subroutine **morse_zgebrd** (M, N, A, LDA, D, E, T, info)
- subroutine **morse_zgelqf** (M, N, A, LDA, T, info)
- subroutine **morse_zgelqs** (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine **morse_zgels** (trans, M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine **morse_zgemm** (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_zgeqrf** (M, N, A, LDA, T, info)
- subroutine **morse_zgeqrs** (M, N, NRHS, A, LDA, T, B, LDB, info)
- subroutine **morse_zgesv** (N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine **morse_zgesv_incpiv** (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine **morse_zgesvd** (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, T, info)
- subroutine **morse_zgetrf** (M, N, A, LDA, IPIV, info)
- subroutine **morse_zgetrf_incpiv** (M, N, A, LDA, L, IPIV, info)
- subroutine **morse_zgetrs** (trans, N, NRHS, A, LDA, IPIV, B, LDB, info)
- subroutine **morse_zgetrs_incpiv** (trans, N, NRHS, A, LDA, L, IPIV, B, LDB, info)

- subroutine **morse_zhemm** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_zherk** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine **morse_zher2k** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_zheev** (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine **morse_zheevd** (jobz, uplo, N, A, LDA, W, T, Q, LDQ, info)
- subroutine **morse_zhegv** (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine **morse_zhegvd** (itype, jobz, uplo, N, A, LDA, B, LDB, W, T, Q, LDQ, info)
- subroutine **morse_zhegst** (itype, uplo, N, A, LDA, B, LDB, info)
- subroutine **morse_zhetrd** (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ, info)
- real(kind=c_double) function **morse_zlange** (norm, M, N, A, LDA, work)
- real(kind=c_double) function **morse_zlanhe** (norm, uplo, N, A, LDA, work)
- real(kind=c_double) function **morse_zlansy** (norm, uplo, N, A, LDA, work)
- subroutine **morse_zlaswp** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_zlauum** (uplo, N, A, LDA, info)
- subroutine **morse_zplghe** (bump, N, A, LDA, seed, info)
- subroutine **morse_zplgsy** (bump, N, A, LDA, seed, info)
- subroutine **morse_zplrnt** (M, N, A, LDA, seed, info)
- subroutine **morse_zposv** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_zpotrf** (uplo, N, A, LDA, info)
- subroutine **morse_zpotri** (uplo, N, A, LDA, info)
- subroutine **morse_zpotrs** (uplo, N, NRHS, A, LDA, B, LDB, info)
- subroutine **morse_zsymm** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_zsyrk** (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC, info)
- subroutine **morse_zsyr2k** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC, info)
- subroutine **morse_ztrmm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_ztrsm** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_ztrsmpl** (N, NRHS, A, LDA, L, IPIV, B, LDB, info)
- subroutine **morse_ztrtri** (uplo, diag, N, A, LDA, info)
- subroutine **morse_zunglq** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zungqr** (M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zunmlq** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zunmqr** (side, trans, M, N, K, A, LDA, T, B, LDB, info)
- subroutine **morse_zgecfi** (m, n, A, fin, imb, inb, fout, omb, onb, info)
- subroutine **morse_zgetmi** (m, n, A, fin, mb, nb, info)
- subroutine **morse_zgetri** (N, A, LDA, IPIV, info)
- subroutine **morse_zlacpy** (uplo, M, N, A, LDA, B, LDB, info)
- subroutine **morse_zlaset** (uplo, M, N, alpha, beta, A, LDA, info)
- subroutine **morse_zlaswpc** (N, A, LDA, K1, K2, IPIV, INCX, info)
- subroutine **morse_ztrsmrv** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB, info)
- subroutine **morse_zgebrd_tile** (A, D, E, T, info)
- subroutine **morse_zgelqf_tile** (A, T, info)
- subroutine **morse_zgelqs_tile** (A, T, B, info)
- subroutine **morse_zgels_tile** (trans, A, T, B, info)
- subroutine **morse_zgemm_tile** (transA, transB, alpha, A, B, beta, C, info)
- subroutine **morse_zgeqrf_tile** (A, T, info)
- subroutine **morse_zgeqrs_tile** (A, T, B, info)
- subroutine **morse_zgesv_tile** (A, IPIV, B, info)
- subroutine **morse_zgesv_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_zgesvd_tile** (jobu, jobvt, A, S, U, VT, T, info)
- subroutine **morse_zgetrf_tile** (A, IPIV, info)
- subroutine **morse_zgetrf_incpiv_tile** (A, L, IPIV, info)
- subroutine **morse_zgetrs_tile** (trans, A, IPIV, B, info)
- subroutine **morse_zgetrs_incpiv_tile** (A, L, IPIV, B, info)
- subroutine **morse_zhemm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_zherk_tile** (uplo, trans, alpha, A, beta, C, info)

- subroutine **morse_zher2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_zheev_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_zheevd_tile** (jobz, uplo, A, W, T, Q, LDQ, info)
- subroutine **morse_zhegv_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_zhegvd_tile** (itype, jobz, uplo, A, B, W, T, Q, info)
- subroutine **morse_zhegst_tile** (itype, uplo, A, B, info)
- subroutine **morse_zhetrd_tile** (jobz, uplo, A, D, E, T, Q, LDQ, info)
- real(kind=c_double) function **morse_zlange_tile** (norm, A, work)
- real(kind=c_double) function **morse_zlanhe_tile** (norm, uplo, A, work)
- real(kind=c_double) function **morse_zlansy_tile** (norm, uplo, A, work)
- subroutine **morse_zlaswp_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_zlauum_tile** (uplo, A, info)
- subroutine **morse_zplghe_tile** (bump, A, seed, info)
- subroutine **morse_zplgsy_tile** (bump, A, seed, info)
- subroutine **morse_zplrnt_tile** (A, seed, info)
- subroutine **morse_zposv_tile** (uplo, A, B, info)
- subroutine **morse_zpotrf_tile** (uplo, A, info)
- subroutine **morse_zpotri_tile** (uplo, A, info)
- subroutine **morse_zpotrs_tile** (uplo, A, B, info)
- subroutine **morse_zsymm_tile** (side, uplo, alpha, A, B, beta, C, info)
- subroutine **morse_zsyrk_tile** (uplo, trans, alpha, A, beta, C, info)
- subroutine **morse_zsyr2k_tile** (uplo, trans, alpha, A, B, beta, C, info)
- subroutine **morse_ztrmm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_ztrsm_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_ztrsmpi_tile** (A, L, IPIV, B, info)
- subroutine **morse_ztrtri_tile** (uplo, diag, A, info)
- subroutine **morse_zunglq_tile** (A, T, B, info)
- subroutine **morse_zungqr_tile** (A, T, B, info)
- subroutine **morse_zunmlq_tile** (side, trans, A, T, B, info)
- subroutine **morse_zunmqr_tile** (side, trans, A, T, B, info)
- subroutine **morse_zgetri_tile** (A, IPIV, info)
- subroutine **morse_zlacpy_tile** (uplo, A, B, info)
- subroutine **morse_zlaset_tile** (uplo, alpha, beta, A, info)
- subroutine **morse_zlaswpc_tile** (A, K1, K2, IPIV, INCX, info)
- subroutine **morse_ztrsmrv_tile** (side, uplo, transA, diag, alpha, A, B, info)
- subroutine **morse_zgetri_tile_async** (A, IPIV, W, sequence, request, info)
- subroutine **morse_zlange_tile_async** (norm, A, work, value, sequence, request, info)
- subroutine **morse_zlansy_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_zgebrd_tile_async** (A, D, E, T, sequence, request, info)
- subroutine **morse_zgecfi_async** (m, n, A, fin, imb, inb, fout, omb, onb, sequence, request, info)
- subroutine **morse_zgelqf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_zgelqs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zgels_tile_async** (trans, A, T, B, sequence, request, info)
- subroutine **morse_zgemm_tile_async** (transA, transB, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zgeqrf_tile_async** (A, T, sequence, request, info)
- subroutine **morse_zgeqrs_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zgesv_tile_async** (A, IPIV, B, sequence, request, info)
- subroutine **morse_zgesv_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_zgesvd_tile_async** (jobu, jobvt, A, S, U, VT, T, sequence, request, info)
- subroutine **morse_zgetmi_async** (m, n, A, fin, mb, nb, sequence, request, info)
- subroutine **morse_zgetrf_tile_async** (A, IPIV, sequence, request, info)
- subroutine **morse_zgetrf_incpiv_tile_async** (A, L, IPIV, sequence, request, info)
- subroutine **morse_zgetrs_tile_async** (trans, A, IPIV, B, sequence, request, info)
- subroutine **morse_zgetrs_incpiv_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_zhemm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)

- subroutine **morse_zherk_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_zher2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zheev_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_zheevd_tile_async** (jobz, uplo, A, W, T, Q, LDQ, sequence, request, info)
- subroutine **morse_zhegv_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_zhegvd_tile_async** (itype, jobz, uplo, A, B, W, T, Q, sequence, request, info)
- subroutine **morse_zhegst_tile_async** (itype, uplo, A, B, sequence, request, info)
- subroutine **morse_zhetrd_tile_async** (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request, info)
- subroutine **morse_zlanhe_tile_async** (norm, uplo, A, work, value, sequence, request, info)
- subroutine **morse_zlaswp_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_zlauum_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_zplghe_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_zplgsy_tile_async** (bump, A, seed, sequence, request, info)
- subroutine **morse_zplrnt_tile_async** (A, seed, sequence, request, info)
- subroutine **morse_zposv_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_zpotrf_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_zpotri_tile_async** (uplo, A, sequence, request, info)
- subroutine **morse_zpotrs_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_zsymm_tile_async** (side, uplo, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_zsyrc_tile_async** (uplo, trans, alpha, A, beta, C, sequence, request, info)
- subroutine **morse_zsyrc2k_tile_async** (uplo, trans, alpha, A, B, beta, C, sequence, request, info)
- subroutine **morse_ztrmm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_ztrsm_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_ztrsmpl_tile_async** (A, L, IPIV, B, sequence, request, info)
- subroutine **morse_ztrtri_tile_async** (uplo, diag, A, sequence, request, info)
- subroutine **morse_zunglq_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zungqr_tile_async** (A, T, B, sequence, request, info)
- subroutine **morse_zunmlq_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_zunmqr_tile_async** (side, trans, A, T, B, sequence, request, info)
- subroutine **morse_zlacpy_tile_async** (uplo, A, B, sequence, request, info)
- subroutine **morse_zlaset_tile_async** (uplo, alpha, beta, A, sequence, request, info)
- subroutine **morse_zlaswpc_tile_async** (A, K1, K2, IPIV, INCX, sequence, request, info)
- subroutine **morse_ztrsmrv_tile_async** (side, uplo, transA, diag, alpha, A, B, sequence, request, info)
- subroutine **morse_alloc_workspace_zgelqf** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgels** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgeqrf** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgesv_incpiv** (N, L, IPIV, info)
- subroutine **morse_alloc_workspace_zgetrf_incpiv** (M, N, L, IPIV, info)
- subroutine **morse_alloc_workspace_zgeev** (N, T, info)
- subroutine **morse_alloc_workspace_zgebrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgehrd** (N, T, info)
- subroutine **morse_alloc_workspace_zgesvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zheev** (M, N, T, info)
- subroutine **morse_alloc_workspace_zheevd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zhegv** (M, N, T, info)
- subroutine **morse_alloc_workspace_zhegvd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zhetrd** (M, N, T, info)
- subroutine **morse_alloc_workspace_zgelqf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_zgels_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_zgeqrf_tile** (M, N, descT, info)
- subroutine **morse_alloc_workspace_zgesv_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_zgetrf_incpiv_tile** (N, descL, IPIV, info)
- subroutine **morse_alloc_workspace_zgetri_tile_async** (A, W, info)
- subroutine **morse_zlapack_to_tile** (Af77, LDA, A, info)
- subroutine **morse_ztile_to_lapack** (A, Af77, LDA, info)
- subroutine **morse_zlapack_to_tile_async** (Af77, LDA, A, sequence, request, info)
- subroutine **morse_ztile_to_lapack_async** (A, Af77, LDA, sequence, request, info)

2.578 morse_zc Module Reference

Data Types

- interface [MORSE_zcgesv_c](#)
- interface [MORSE_zcgesv_Tile_Async_c](#)
- interface [MORSE_zcgesv_Tile_c](#)
- interface [MORSE_zcposv_c](#)
- interface [MORSE_zcposv_Tile_Async_c](#)
- interface [MORSE_zcposv_Tile_c](#)
- interface [MORSE_zcungesv_c](#)
- interface [MORSE_zcungesv_Tile_Async_c](#)
- interface [MORSE_zcungesv_Tile_c](#)

Public Member Functions

- subroutine **morse_zcgesv** (N, NRHS, A, LDA, IPIV, B, LDB, X, LDX, ITER, info)
- subroutine **morse_zcposv** (uplo, N, NRHS, A, LDA, B, LDB, X, LDX, ITER, info)
- subroutine **morse_zcungesv** (trans, N, NRHS, A, LDA, B, LDB, X, LDX, ITER, info)
- subroutine **morse_zcgesv_tile** (A, IPIV, B, X, ITER, info)
- subroutine **morse_zcposv_tile** (uplo, A, B, X, ITER, info)
- subroutine **morse_zcungesv_tile** (trans, A, T, B, X, ITER, info)
- subroutine **morse_zcgesv_tile_async** (A, IPIV, B, X, ITER, sequence, request, info)
- subroutine **morse_zcposv_tile_async** (uplo, A, B, X, ITER, sequence, request, info)
- subroutine **morse_zcungesv_tile_async** (trans, A, T, B, X, ITER, sequence, request, info)
- subroutine **morse_zcgesv** (N, NRHS, A, LDA, IPIV, B, LDB, X, LDX, ITER, info)
- subroutine **morse_zcposv** (uplo, N, NRHS, A, LDA, B, LDB, X, LDX, ITER, info)
- subroutine **morse_zcungesv** (trans, N, NRHS, A, LDA, B, LDB, X, LDX, ITER, info)
- subroutine **morse_zcgesv_tile** (A, IPIV, B, X, ITER, info)
- subroutine **morse_zcposv_tile** (uplo, A, B, X, ITER, info)
- subroutine **morse_zcungesv_tile** (trans, A, T, B, X, ITER, info)
- subroutine **morse_zcgesv_tile_async** (A, IPIV, B, X, ITER, sequence, request, info)
- subroutine **morse_zcposv_tile_async** (uplo, A, B, X, ITER, sequence, request, info)
- subroutine **morse_zcungesv_tile_async** (trans, A, T, B, X, ITER, sequence, request, info)

2.579 morse_zc::MORSE_zcgesv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zcgesv_c** (N, NRHS, A, LDA, IPIV, B, LDB, X, LDX, ITER)
- integer(kind=c_int) function **morse_zcgesv_c** (N, NRHS, A, LDA, IPIV, B, LDB, X, LDX, ITER)

2.580 morse_zc::MORSE_zcgesv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zcgesv_tile_async_c** (A, IPIV, B, X, ITER, sequence, request)
- integer(kind=c_int) function **morse_zcgesv_tile_async_c** (A, IPIV, B, X, ITER, sequence, request)

2.581 `morse_zc::MORSE_zcgesv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcgesv_tile_c` (A, IPIV, B, X, ITER)
- integer(kind=c_int) function `morse_zcgesv_tile_c` (A, IPIV, B, X, ITER)

2.582 `morse_zc::MORSE_zcposv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcposv_c` (uplo, N, NRHS, A, LDA, B, LDB, X, LDX, ITER)
- integer(kind=c_int) function `morse_zcposv_c` (uplo, N, NRHS, A, LDA, B, LDB, X, LDX, ITER)

2.583 `morse_zc::MORSE_zcposv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcposv_tile_async_c` (uplo, A, B, X, ITER, sequence, request)
- integer(kind=c_int) function `morse_zcposv_tile_async_c` (uplo, A, B, X, ITER, sequence, request)

2.584 `morse_zc::MORSE_zcposv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcposv_tile_c` (uplo, A, B, X, ITER)
- integer(kind=c_int) function `morse_zcposv_tile_c` (uplo, A, B, X, ITER)

2.585 `morse_zc::MORSE_zcungesv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcungesv_c` (trans, N, NRHS, A, LDA, B, LDB, X, LDX, ITER)
- integer(kind=c_int) function `morse_zcungesv_c` (trans, N, NRHS, A, LDA, B, LDB, X, LDX, ITER)

2.586 `morse_zc::MORSE_zcungesv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcungesv_tile_async_c` (trans, A, T, B, X, ITER, sequence, request)
- integer(kind=c_int) function `morse_zcungesv_tile_async_c` (trans, A, T, B, X, ITER, sequence, request)

2.587 `morse_zc::MORSE_zcungesv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zcungesv_tile_c` (trans, A, T, B, X, ITER)
- integer(kind=c_int) function `morse_zcungesv_tile_c` (trans, A, T, B, X, ITER)

2.588 morse_z::MORSE_zgebrd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgebrd_c** (M, N, A, LDA, D, E, descT)
- integer(kind=c_int) function **morse_zgebrd_c** (M, N, A, LDA, D, E, descT)

2.589 morse_z::MORSE_zgebrd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgebrd_tile_async_c** (A, D, E, T, sequence, request)
- integer(kind=c_int) function **morse_zgebrd_tile_async_c** (A, D, E, T, sequence, request)

2.590 morse_z::MORSE_zgebrd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgebrd_tile_c** (A, D, E, T)
- integer(kind=c_int) function **morse_zgebrd_tile_c** (A, D, E, T)

2.591 morse_z::MORSE_zgecfi_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgecfi_async_c** (m, n, A, f_in, imb, inb, f_out, omb, onb, sequence, request)
- integer(kind=c_int) function **morse_zgecfi_async_c** (m, n, A, f_in, imb, inb, f_out, omb, onb, sequence, request)

2.592 morse_z::MORSE_zgecfi_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgecfi_c** (m, n, A, fin, imb, inb, fout, omb, onb)
- integer(kind=c_int) function **morse_zgecfi_c** (m, n, A, fin, imb, inb, fout, omb, onb)

2.593 morse_z::MORSE_zgelqf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgelqf_c** (M, N, A, LDA, descT)
- integer(kind=c_int) function **morse_zgelqf_c** (M, N, A, LDA, descT)

2.594 `morse_z::MORSE_zgelqf_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgelqf_tile_async_c` (A, T, sequence, request)
- integer(kind=c_int) function `morse_zgelqf_tile_async_c` (A, T, sequence, request)

2.595 `morse_z::MORSE_zgelqf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgelqf_tile_c` (A, T)
- integer(kind=c_int) function `morse_zgelqf_tile_c` (A, T)

2.596 `morse_z::MORSE_zgelqs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgelqs_c` (M, N, NRHS, A, LDA, descT, B, LDB)
- integer(kind=c_int) function `morse_zgelqs_c` (M, N, NRHS, A, LDA, descT, B, LDB)

2.597 `morse_z::MORSE_zgelqs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgelqs_tile_async_c` (A, T, B, sequence, request)
- integer(kind=c_int) function `morse_zgelqs_tile_async_c` (A, T, B, sequence, request)

2.598 `morse_z::MORSE_zgelqs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgelqs_tile_c` (A, T, B)
- integer(kind=c_int) function `morse_zgelqs_tile_c` (A, T, B)

2.599 `morse_z::MORSE_zgels_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgels_c` (trans, M, N, NRHS, A, LDA, descT, B, LDB)
- integer(kind=c_int) function `morse_zgels_c` (trans, M, N, NRHS, A, LDA, descT, B, LDB)

2.600 `morse_z::MORSE_zgels_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgels_tile_async_c` (trans, A, T, B, sequence, request)
- integer(kind=c_int) function `morse_zgels_tile_async_c` (trans, A, T, B, sequence, request)

2.601 morse_z::MORSE_zgels_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgels_tile_c** (trans, A, T, B)
- integer(kind=c_int) function **morse_zgels_tile_c** (trans, A, T, B)

2.602 morse_z::MORSE_zgemm_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgemm_c** (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)
- integer(kind=c_int) function **morse_zgemm_c** (transA, transB, M, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.603 morse_z::MORSE_zgemm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgemm_tile_async_c** (transA, transB, alpha, A, B, beta, C, sequence, request)
- integer(kind=c_int) function **morse_zgemm_tile_async_c** (transA, transB, alpha, A, B, beta, C, sequence, request)

2.604 morse_z::MORSE_zgemm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgemm_tile_c** (transA, transB, alpha, A, B, beta, C)
- integer(kind=c_int) function **morse_zgemm_tile_c** (transA, transB, alpha, A, B, beta, C)

2.605 morse_z::MORSE_zgeqrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgeqrf_c** (M, N, A, LDA, descT)
- integer(kind=c_int) function **morse_zgeqrf_c** (M, N, A, LDA, descT)

2.606 morse_z::MORSE_zgeqrf_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgeqrf_tile_async_c** (A, T, sequence, request)
- integer(kind=c_int) function **morse_zgeqrf_tile_async_c** (A, T, sequence, request)

2.607 `morse_z::MORSE_zgeqrf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgeqrf_tile_c` (A, T)
- integer(kind=c_int) function `morse_zgeqrf_tile_c` (A, T)

2.608 `morse_z::MORSE_zgeqrs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgeqrs_c` (M, N, NRHS, A, LDA, descT, B, LDB)
- integer(kind=c_int) function `morse_zgeqrs_c` (M, N, NRHS, A, LDA, descT, B, LDB)

2.609 `morse_z::MORSE_zgeqrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgeqrs_tile_async_c` (A, T, B, sequence, request)
- integer(kind=c_int) function `morse_zgeqrs_tile_async_c` (A, T, B, sequence, request)

2.610 `morse_z::MORSE_zgeqrs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgeqrs_tile_c` (A, T, B)
- integer(kind=c_int) function `morse_zgeqrs_tile_c` (A, T, B)

2.611 `morse_z::MORSE_zgesv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgesv_c` (N, NRHS, A, LDA, IPIV, B, LDB)
- integer(kind=c_int) function `morse_zgesv_c` (N, NRHS, A, LDA, IPIV, B, LDB)

2.612 `morse_z::MORSE_zgesv_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgesv_incpiv_c` (N, NRHS, A, LDA, descL, IPIV, B, LDB)
- integer(kind=c_int) function `morse_zgesv_incpiv_c` (N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.613 `morse_z::MORSE_zgesv_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgesv_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)
- integer(kind=c_int) function `morse_zgesv_incpiv_tile_async_c` (A, L, IPIV, B, sequence, request)

2.614 morse_z::MORSE_zgesv_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgesv_incpiv_tile_c** (A, L, IPIV, B)
- integer(kind=c_int) function **morse_zgesv_incpiv_tile_c** (A, L, IPIV, B)

2.615 morse_z::MORSE_zgesv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgesv_tile_async_c** (A, IPIV, B, sequence, request)
- integer(kind=c_int) function **morse_zgesv_tile_async_c** (A, IPIV, B, sequence, request)

2.616 morse_z::MORSE_zgesv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgesv_tile_c** (A, IPIV, B)
- integer(kind=c_int) function **morse_zgesv_tile_c** (A, IPIV, B)

2.617 morse_z::MORSE_zgesvd_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgesvd_c** (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, descT)
- integer(kind=c_int) function **morse_zgesvd_c** (jobu, jobvt, M, N, A, LDA, S, U, LDU, VT, LDVT, descT)

2.618 morse_z::MORSE_zgesvd_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgesvd_tile_async_c** (jobu, jobvt, A, S, U, VT, T, sequence, request)
- integer(kind=c_int) function **morse_zgesvd_tile_async_c** (jobu, jobvt, A, S, U, VT, T, sequence, request)

2.619 morse_z::MORSE_zgesvd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgesvd_tile_c** (jobu, jobvt, A, S, U, VT, T)
- integer(kind=c_int) function **morse_zgesvd_tile_c** (jobu, jobvt, A, S, U, VT, T)

2.620 morse_z::MORSE_zgetmi_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetmi_async_c** (m, n, A, f_in, mb, inb, sequence, request)
- integer(kind=c_int) function **morse_zgetmi_async_c** (m, n, A, f_in, mb, inb, sequence, request)

2.621 `morse_z::MORSE_zgetmi_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetmi_c` (m, n, A, fin, mb, nb)
- integer(kind=c_int) function `morse_zgetmi_c` (m, n, A, fin, mb, nb)

2.622 `morse_z::MORSE_zgetrf_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrf_c` (M, N, A, LDA, IPIV)
- integer(kind=c_int) function `morse_zgetrf_c` (M, N, A, LDA, IPIV)

2.623 `morse_z::MORSE_zgetrf_incpiv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrf_incpiv_c` (M, N, A, LDA, descL, IPIV)
- integer(kind=c_int) function `morse_zgetrf_incpiv_c` (M, N, A, LDA, descL, IPIV)

2.624 `morse_z::MORSE_zgetrf_incpiv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrf_incpiv_tile_async_c` (A, L, IPIV, sequence, request)
- integer(kind=c_int) function `morse_zgetrf_incpiv_tile_async_c` (A, L, IPIV, sequence, request)

2.625 `morse_z::MORSE_zgetrf_incpiv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrf_incpiv_tile_c` (A, L, IPIV)
- integer(kind=c_int) function `morse_zgetrf_incpiv_tile_c` (A, L, IPIV)

2.626 `morse_z::MORSE_zgetrf_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrf_tile_async_c` (A, IPIV, sequence, request)
- integer(kind=c_int) function `morse_zgetrf_tile_async_c` (A, IPIV, sequence, request)

2.627 `morse_z::MORSE_zgetrf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrf_tile_c` (A, IPIV)
- integer(kind=c_int) function `morse_zgetrf_tile_c` (A, IPIV)

2.628 morse_z::MORSE_zgetri_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetri_c** (N, A, LDA, IPIV)
- integer(kind=c_int) function **morse_zgetri_c** (N, A, LDA, IPIV)

2.629 morse_z::MORSE_zgetri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetri_tile_async_c** (A, IPIV, W, sequence, request)
- integer(kind=c_int) function **morse_zgetri_tile_async_c** (A, IPIV, W, sequence, request)

2.630 morse_z::MORSE_zgetri_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetri_tile_c** (A, IPIV)
- integer(kind=c_int) function **morse_zgetri_tile_c** (A, IPIV)

2.631 morse_z::MORSE_zgetrs_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetrs_c** (trans, N, NRHS, A, LDA, IPIV, B, LDB)
- integer(kind=c_int) function **morse_zgetrs_c** (trans, N, NRHS, A, LDA, IPIV, B, LDB)

2.632 morse_z::MORSE_zgetrs_incpiv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetrs_incpiv_c** (trans, N, NRHS, A, LDA, descL, IPIV, B, LDB)
- integer(kind=c_int) function **morse_zgetrs_incpiv_c** (trans, N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.633 morse_z::MORSE_zgetrs_incpiv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetrs_incpiv_tile_async_c** (A, L, IPIV, B, sequence, request)
- integer(kind=c_int) function **morse_zgetrs_incpiv_tile_async_c** (A, L, IPIV, B, sequence, request)

2.634 morse_z::MORSE_zgetrs_incpiv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zgetrs_incpiv_tile_c** (A, L, IPIV, B)
- integer(kind=c_int) function **morse_zgetrs_incpiv_tile_c** (A, L, IPIV, B)

2.635 `morse_z::MORSE_zgetrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrs_tile_async_c` (trans, A, IPIV, B, sequence, request)
- integer(kind=c_int) function `morse_zgetrs_tile_async_c` (trans, A, IPIV, B, sequence, request)

2.636 `morse_z::MORSE_zgetrs_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zgetrs_tile_c` (trans, A, IPIV, B)
- integer(kind=c_int) function `morse_zgetrs_tile_c` (trans, A, IPIV, B)

2.637 `morse_z::MORSE_zheev_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zheev_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)
- integer(kind=c_int) function `morse_zheev_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.638 `morse_z::MORSE_zheev_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zheev_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)
- integer(kind=c_int) function `morse_zheev_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.639 `morse_z::MORSE_zheev_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zheev_tile_c` (jobz, uplo, A, W, T, Q, LDQ)
- integer(kind=c_int) function `morse_zheev_tile_c` (jobz, uplo, A, W, T, Q, LDQ)

2.640 `morse_z::MORSE_zheevd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zheevd_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)
- integer(kind=c_int) function `morse_zheevd_c` (jobz, uplo, N, A, LDA, W, descT, Q, LDQ)

2.641 `morse_z::MORSE_zheevd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zheevd_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)
- integer(kind=c_int) function `morse_zheevd_tile_async_c` (jobz, uplo, A, W, T, Q, LDQ, sequence, request)

2.642 morse_z::MORSE_zheevd_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zheevd_tile_c** (jobz, uplo, A, W, T, Q, LDQ)
- integer(kind=c_int) function **morse_zheevd_tile_c** (jobz, uplo, A, W, T, Q, LDQ)

2.643 morse_z::MORSE_zhegst_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zhegst_c** (itype, uplo, N, A, LDA, B, LDB)
- integer(kind=c_int) function **morse_zhegst_c** (itype, uplo, N, A, LDA, B, LDB)

2.644 morse_z::MORSE_zhegst_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zhegst_tile_async_c** (itype, uplo, A, B, sequence, request)
- integer(kind=c_int) function **morse_zhegst_tile_async_c** (itype, uplo, A, B, sequence, request)

2.645 morse_z::MORSE_zhegst_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zhegst_tile_c** (itype, uplo, A, B)
- integer(kind=c_int) function **morse_zhegst_tile_c** (itype, uplo, A, B)

2.646 morse_z::MORSE_zhegv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zhegv_c** (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)
- integer(kind=c_int) function **morse_zhegv_c** (itype, jobz, uplo, N, A, LDA, B, LDB, W, descT, Q, LDQ)

2.647 morse_z::MORSE_zhegv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zhegv_tile_async_c** (itype, jobz, uplo, A, B, W, T, Q, sequence, request)
- integer(kind=c_int) function **morse_zhegv_tile_async_c** (itype, jobz, uplo, A, B, W, T, Q, sequence, request)

2.648 morse_z::MORSE_zhegv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zhegv_tile_c** (itype, jobz, uplo, A, B, W, T, Q)
- integer(kind=c_int) function **morse_zhegv_tile_c** (itype, jobz, uplo, A, B, W, T, Q)

2.649 `morse_z::MORSE_zhegvd_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zhegvd_c` (`itype`, `jobz`, `uplo`, `N`, `A`, `LDA`, `B`, `LDB`, `W`, `descT`, `Q`, `LDQ`)
- `integer(kind=c_int)` function `morse_zhegvd_c` (`itype`, `jobz`, `uplo`, `N`, `A`, `LDA`, `B`, `LDB`, `W`, `descT`, `Q`, `LDQ`)

2.650 `morse_z::MORSE_zhegvd_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zhegvd_tile_async_c` (`itype`, `jobz`, `uplo`, `A`, `B`, `W`, `T`, `Q`, `sequence`, `request`)
- `integer(kind=c_int)` function `morse_zhegvd_tile_async_c` (`itype`, `jobz`, `uplo`, `A`, `B`, `W`, `T`, `Q`, `sequence`, `request`)

2.651 `morse_z::MORSE_zhegvd_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zhegvd_tile_c` (`itype`, `jobz`, `uplo`, `A`, `B`, `W`, `T`, `Q`)
- `integer(kind=c_int)` function `morse_zhegvd_tile_c` (`itype`, `jobz`, `uplo`, `A`, `B`, `W`, `T`, `Q`)

2.652 `morse_z::MORSE_zhemm_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zhemm_c` (`side`, `uplo`, `M`, `N`, `alpha`, `A`, `LDA`, `B`, `LDB`, `beta`, `C`, `LDC`)
- `integer(kind=c_int)` function `morse_zhemm_c` (`side`, `uplo`, `M`, `N`, `alpha`, `A`, `LDA`, `B`, `LDB`, `beta`, `C`, `LDC`)

2.653 `morse_z::MORSE_zhemm_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zhemm_tile_async_c` (`side`, `uplo`, `alpha`, `A`, `B`, `beta`, `C`, `sequence`, `request`)
- `integer(kind=c_int)` function `morse_zhemm_tile_async_c` (`side`, `uplo`, `alpha`, `A`, `B`, `beta`, `C`, `sequence`, `request`)

2.654 `morse_z::MORSE_zhemm_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zhemm_tile_c` (`side`, `uplo`, `alpha`, `A`, `B`, `beta`, `C`)
- `integer(kind=c_int)` function `morse_zhemm_tile_c` (`side`, `uplo`, `alpha`, `A`, `B`, `beta`, `C`)

2.655 `morse_z::MORSE_zher2k_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zher2k_c` (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)
- `integer(kind=c_int)` function `morse_zher2k_c` (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.656 `morse_z::MORSE_zher2k_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zher2k_tile_async_c` (uplo, trans, alpha, A, B, beta, C, sequence, request)
- `integer(kind=c_int)` function `morse_zher2k_tile_async_c` (uplo, trans, alpha, A, B, beta, C, sequence, request)

2.657 `morse_z::MORSE_zher2k_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zher2k_tile_c` (uplo, trans, alpha, A, B, beta, C)
- `integer(kind=c_int)` function `morse_zher2k_tile_c` (uplo, trans, alpha, A, B, beta, C)

2.658 `morse_z::MORSE_zherk_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zherk_c` (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)
- `integer(kind=c_int)` function `morse_zherk_c` (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)

2.659 `morse_z::MORSE_zherk_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zherk_tile_async_c` (uplo, trans, alpha, A, beta, C, sequence, request)
- `integer(kind=c_int)` function `morse_zherk_tile_async_c` (uplo, trans, alpha, A, beta, C, sequence, request)

2.660 `morse_z::MORSE_zherk_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zherk_tile_c` (uplo, trans, alpha, A, beta, C)
- `integer(kind=c_int)` function `morse_zherk_tile_c` (uplo, trans, alpha, A, beta, C)

2.661 `morse_z::MORSE_zhetrd_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zhetrd_c` (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ)
- integer(kind=c_int) function `morse_zhetrd_c` (jobz, uplo, N, A, LDA, D, E, descT, Q, LDQ)

2.662 `morse_z::MORSE_zhetrd_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zhetrd_tile_async_c` (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request)
- integer(kind=c_int) function `morse_zhetrd_tile_async_c` (jobz, uplo, A, D, E, T, Q, LDQ, sequence, request)

2.663 `morse_z::MORSE_zhetrd_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zhetrd_tile_c` (jobz, uplo, A, D, E, T, Q, LDQ)
- integer(kind=c_int) function `morse_zhetrd_tile_c` (jobz, uplo, A, D, E, T, Q, LDQ)

2.664 `morse_z::MORSE_zlacpy_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zlacpy_c` (uplo, M, N, A, LDA, B, LDB)
- integer(kind=c_int) function `morse_zlacpy_c` (uplo, M, N, A, LDA, B, LDB)

2.665 `morse_z::MORSE_zlacpy_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zlacpy_tile_async_c` (uplo, A, B, sequence, request)
- integer(kind=c_int) function `morse_zlacpy_tile_async_c` (uplo, A, B, sequence, request)

2.666 `morse_z::MORSE_zlacpy_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zlacpy_tile_c` (uplo, A, B)
- integer(kind=c_int) function `morse_zlacpy_tile_c` (uplo, A, B)

2.667 `morse_z::MORSE_zlange_c` Interface Reference

Public Member Functions

- real(kind=c_double) function `morse_zlange_c` (norm, M, N, A, LDA, work)
- real(kind=c_double) function `morse_zlange_c` (norm, M, N, A, LDA, work)

2.668 morse_z::MORSE_zlange_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlange_tile_async_c** (norm, A, work, value, sequence, request)
- integer(kind=c_int) function **morse_zlange_tile_async_c** (norm, A, work, value, sequence, request)

2.669 morse_z::MORSE_zlange_Tile_c Interface Reference

Public Member Functions

- real(kind=c_double) function **morse_zlange_tile_c** (norm, A, work)
- real(kind=c_double) function **morse_zlange_tile_c** (norm, A, work)

2.670 morse_z::MORSE_zlanhe_c Interface Reference

Public Member Functions

- real(kind=c_double) function **morse_zlanhe_c** (norm, uplo, N, A, LDA, work)
- real(kind=c_double) function **morse_zlanhe_c** (norm, uplo, N, A, LDA, work)

2.671 morse_z::MORSE_zlanhe_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlanhe_tile_async_c** (norm, uplo, A, work, value, sequence, request)
- integer(kind=c_int) function **morse_zlanhe_tile_async_c** (norm, uplo, A, work, value, sequence, request)

2.672 morse_z::MORSE_zlanhe_Tile_c Interface Reference

Public Member Functions

- real(kind=c_double) function **morse_zlanhe_tile_c** (norm, uplo, A, work)
- real(kind=c_double) function **morse_zlanhe_tile_c** (norm, uplo, A, work)

2.673 morse_z::MORSE_zlansy_c Interface Reference

Public Member Functions

- real(kind=c_double) function **morse_zlansy_c** (norm, uplo, N, A, LDA, work)
- real(kind=c_double) function **morse_zlansy_c** (norm, uplo, N, A, LDA, work)

2.674 morse_z::MORSE_zlansy_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlansy_tile_async_c** (norm, uplo, A, work, value, sequence, request)
- integer(kind=c_int) function **morse_zlansy_tile_async_c** (norm, uplo, A, work, value, sequence, request)

2.675 `morse_z::MORSE_zlansy_Tile_c` Interface Reference

Public Member Functions

- `real(kind=c_double)` function `morse_zlansy_tile_c` (norm, uplo, A, work)
- `real(kind=c_double)` function `morse_zlansy_tile_c` (norm, uplo, A, work)

2.676 `morse_z::MORSE_zLapack_to_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zlapack_to_tile_async_c` (Af77, LDA, A, sequence, request)
- `integer(kind=c_int)` function `morse_zlapack_to_tile_async_c` (Af77, LDA, A, sequence, request)

2.677 `morse_z::MORSE_zLapack_to_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zlapack_to_tile_c` (Af77, LDA, A)
- `integer(kind=c_int)` function `morse_zlapack_to_tile_c` (Af77, LDA, A)

2.678 `morse_z::MORSE_zlaset_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zlaset_c` (uplo, M, N, alpha, beta, A, LDA)
- `integer(kind=c_int)` function `morse_zlaset_c` (uplo, M, N, alpha, beta, A, LDA)

2.679 `morse_z::MORSE_zlaset_Tile_Async_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zlaset_tile_async_c` (uplo, alpha, beta, A, sequence, request)
- `integer(kind=c_int)` function `morse_zlaset_tile_async_c` (uplo, alpha, beta, A, sequence, request)

2.680 `morse_z::MORSE_zlaset_Tile_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zlaset_tile_c` (uplo, alpha, beta, A)
- `integer(kind=c_int)` function `morse_zlaset_tile_c` (uplo, alpha, beta, A)

2.681 `morse_z::MORSE_zlaswp_c` Interface Reference

Public Member Functions

- `integer(kind=c_int)` function `morse_zlaswp_c` (N, A, LDA, K1, K2, IPIV, INCX)
- `integer(kind=c_int)` function `morse_zlaswp_c` (N, A, LDA, K1, K2, IPIV, INCX)

2.682 morse_z::MORSE_zlaswp_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlaswp_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)
- integer(kind=c_int) function **morse_zlaswp_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)

2.683 morse_z::MORSE_zlaswp_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlaswp_tile_c** (A, K1, K2, IPIV, INCX)
- integer(kind=c_int) function **morse_zlaswp_tile_c** (A, K1, K2, IPIV, INCX)

2.684 morse_z::MORSE_zlaswpc_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlaswpc_c** (N, A, LDA, K1, K2, IPIV, INCX)
- integer(kind=c_int) function **morse_zlaswpc_c** (N, A, LDA, K1, K2, IPIV, INCX)

2.685 morse_z::MORSE_zlaswpc_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlaswpc_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)
- integer(kind=c_int) function **morse_zlaswpc_tile_async_c** (A, K1, K2, IPIV, INCX, sequence, request)

2.686 morse_z::MORSE_zlaswpc_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlaswpc_tile_c** (A, K1, K2, IPIV, INCX)
- integer(kind=c_int) function **morse_zlaswpc_tile_c** (A, K1, K2, IPIV, INCX)

2.687 morse_z::MORSE_zlauum_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlauum_c** (uplo, N, A, LDA)
- integer(kind=c_int) function **morse_zlauum_c** (uplo, N, A, LDA)

2.688 morse_z::MORSE_zlauum_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlauum_tile_async_c** (uplo, A, sequence, request)
- integer(kind=c_int) function **morse_zlauum_tile_async_c** (uplo, A, sequence, request)

2.689 morse_z::MORSE_zlauum_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zlauum_tile_c** (uplo, A)
- integer(kind=c_int) function **morse_zlauum_tile_c** (uplo, A)

2.690 morse_z::MORSE_zplghe_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplghe_c** (bump, N, A, LDA, seed)
- integer(kind=c_int) function **morse_zplghe_c** (bump, N, A, LDA, seed)

2.691 morse_z::MORSE_zplghe_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplghe_tile_async_c** (bump, A, seed, sequence, request)
- integer(kind=c_int) function **morse_zplghe_tile_async_c** (bump, A, seed, sequence, request)

2.692 morse_z::MORSE_zplghe_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplghe_tile_c** (bump, A, seed)
- integer(kind=c_int) function **morse_zplghe_tile_c** (bump, A, seed)

2.693 morse_z::MORSE_zplgsy_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplgsy_c** (bump, N, A, LDA, seed)
- integer(kind=c_int) function **morse_zplgsy_c** (bump, N, A, LDA, seed)

2.694 morse_z::MORSE_zplgsy_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplgsy_tile_async_c** (bump, A, seed, sequence, request)
- integer(kind=c_int) function **morse_zplgsy_tile_async_c** (bump, A, seed, sequence, request)

2.695 morse_z::MORSE_zplgsy_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplgsy_tile_c** (bump, A, seed)
- integer(kind=c_int) function **morse_zplgsy_tile_c** (bump, A, seed)

2.696 morse_z::MORSE_zplrnt_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplrnt_c** (M, N, A, LDA, seed)
- integer(kind=c_int) function **morse_zplrnt_c** (M, N, A, LDA, seed)

2.697 morse_z::MORSE_zplrnt_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplrnt_tile_async_c** (A, seed, sequence, request)
- integer(kind=c_int) function **morse_zplrnt_tile_async_c** (A, seed, sequence, request)

2.698 morse_z::MORSE_zplrnt_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zplrnt_tile_c** (A, seed)
- integer(kind=c_int) function **morse_zplrnt_tile_c** (A, seed)

2.699 morse_z::MORSE_zposv_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zposv_c** (uplo, N, NRHS, A, LDA, B, LDB)
- integer(kind=c_int) function **morse_zposv_c** (uplo, N, NRHS, A, LDA, B, LDB)

2.700 morse_z::MORSE_zposv_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zposv_tile_async_c** (uplo, A, B, sequence, request)
- integer(kind=c_int) function **morse_zposv_tile_async_c** (uplo, A, B, sequence, request)

2.701 morse_z::MORSE_zposv_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zposv_tile_c** (uplo, A, B)
- integer(kind=c_int) function **morse_zposv_tile_c** (uplo, A, B)

2.702 morse_z::MORSE_zpotrf_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zpotrf_c** (uplo, N, A, LDA)
- integer(kind=c_int) function **morse_zpotrf_c** (uplo, N, A, LDA)

2.703 `morse_z::MORSE_zpotrf_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotrf_tile_async_c` (uplo, A, sequence, request)
- integer(kind=c_int) function `morse_zpotrf_tile_async_c` (uplo, A, sequence, request)

2.704 `morse_z::MORSE_zpotrf_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotrf_tile_c` (uplo, A)
- integer(kind=c_int) function `morse_zpotrf_tile_c` (uplo, A)

2.705 `morse_z::MORSE_zpotri_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotri_c` (uplo, N, A, LDA)
- integer(kind=c_int) function `morse_zpotri_c` (uplo, N, A, LDA)

2.706 `morse_z::MORSE_zpotri_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotri_tile_async_c` (uplo, A, sequence, request)
- integer(kind=c_int) function `morse_zpotri_tile_async_c` (uplo, A, sequence, request)

2.707 `morse_z::MORSE_zpotri_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotri_tile_c` (uplo, A)
- integer(kind=c_int) function `morse_zpotri_tile_c` (uplo, A)

2.708 `morse_z::MORSE_zpotrs_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotrs_c` (uplo, N, NRHS, A, LDA, B, LDB)
- integer(kind=c_int) function `morse_zpotrs_c` (uplo, N, NRHS, A, LDA, B, LDB)

2.709 `morse_z::MORSE_zpotrs_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zpotrs_tile_async_c` (uplo, A, B, sequence, request)
- integer(kind=c_int) function `morse_zpotrs_tile_async_c` (uplo, A, B, sequence, request)

2.710 morse_z::MORSE_zpotrs_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zpotrs_tile_c** (uplo, A, B)
- integer(kind=c_int) function **morse_zpotrs_tile_c** (uplo, A, B)

2.711 morse_z::MORSE_zsymm_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zsymm_c** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC)
- integer(kind=c_int) function **morse_zsymm_c** (side, uplo, M, N, alpha, A, LDA, B, LDB, beta, C, LDC)

2.712 morse_z::MORSE_zsymm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zsymm_tile_async_c** (side, uplo, alpha, A, B, beta, C, sequence, request)
- integer(kind=c_int) function **morse_zsymm_tile_async_c** (side, uplo, alpha, A, B, beta, C, sequence, request)

2.713 morse_z::MORSE_zsymm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zsymm_tile_c** (side, uplo, alpha, A, B, beta, C)
- integer(kind=c_int) function **morse_zsymm_tile_c** (side, uplo, alpha, A, B, beta, C)

2.714 morse_z::MORSE_zsyr2k_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zsyr2k_c** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)
- integer(kind=c_int) function **morse_zsyr2k_c** (uplo, trans, N, K, alpha, A, LDA, B, LDB, beta, C, LDC)

2.715 morse_z::MORSE_zsyr2k_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zsyr2k_tile_async_c** (uplo, trans, alpha, A, B, beta, C, sequence, request)
- integer(kind=c_int) function **morse_zsyr2k_tile_async_c** (uplo, trans, alpha, A, B, beta, C, sequence, request)

2.716 `morse_z::MORSE_zsyr2k_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zsyr2k_tile_c` (uplo, trans, alpha, A, B, beta, C)
- integer(kind=c_int) function `morse_zsyr2k_tile_c` (uplo, trans, alpha, A, B, beta, C)

2.717 `morse_z::MORSE_zsyrk_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zsyrk_c` (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)
- integer(kind=c_int) function `morse_zsyrk_c` (uplo, trans, N, K, alpha, A, LDA, beta, C, LDC)

2.718 `morse_z::MORSE_zsyrk_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zsyrk_tile_async_c` (uplo, trans, alpha, A, beta, C, sequence, request)
- integer(kind=c_int) function `morse_zsyrk_tile_async_c` (uplo, trans, alpha, A, beta, C, sequence, request)

2.719 `morse_z::MORSE_zsyrk_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_zsyrk_tile_c` (uplo, trans, alpha, A, beta, C)
- integer(kind=c_int) function `morse_zsyrk_tile_c` (uplo, trans, alpha, A, beta, C)

2.720 `morse_z::MORSE_zTile_to_Lapack_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztile_to_lapack_async_c` (A, Af77, LDA, sequence, request)
- integer(kind=c_int) function `morse_ztile_to_lapack_async_c` (A, Af77, LDA, sequence, request)

2.721 `morse_z::MORSE_zTile_to_Lapack_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztile_to_lapack_c` (A, Af77, LDA)
- integer(kind=c_int) function `morse_ztile_to_lapack_c` (A, Af77, LDA)

2.722 `morse_z::MORSE_ztrmm_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrmm_c` (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)
- integer(kind=c_int) function `morse_ztrmm_c` (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.723 morse_z::MORSE_ztrmm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrmm_tile_async_c** (side, uplo, transA, diag, alpha, A, B, sequence, request)
- integer(kind=c_int) function **morse_ztrmm_tile_async_c** (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.724 morse_z::MORSE_ztrmm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrmm_tile_c** (side, uplo, transA, diag, alpha, A, B)
- integer(kind=c_int) function **morse_ztrmm_tile_c** (side, uplo, transA, diag, alpha, A, B)

2.725 morse_z::MORSE_ztrsm_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrsm_c** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)
- integer(kind=c_int) function **morse_ztrsm_c** (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.726 morse_z::MORSE_ztrsm_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrsm_tile_async_c** (side, uplo, transA, diag, alpha, A, B, sequence, request)
- integer(kind=c_int) function **morse_ztrsm_tile_async_c** (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.727 morse_z::MORSE_ztrsm_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrsm_tile_c** (side, uplo, transA, diag, alpha, A, B)
- integer(kind=c_int) function **morse_ztrsm_tile_c** (side, uplo, transA, diag, alpha, A, B)

2.728 morse_z::MORSE_ztrsmpl_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrsmpl_c** (N, NRHS, A, LDA, descL, IPIV, B, LDB)
- integer(kind=c_int) function **morse_ztrsmpl_c** (N, NRHS, A, LDA, descL, IPIV, B, LDB)

2.729 `morse_z::MORSE_ztrsmpi_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrsmpi_tile_async_c` (A, L, IPIV, B, sequence, request)
- integer(kind=c_int) function `morse_ztrsmpi_tile_async_c` (A, L, IPIV, B, sequence, request)

2.730 `morse_z::MORSE_ztrsmpi_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrsmpi_tile_c` (A, L, IPIV, B)
- integer(kind=c_int) function `morse_ztrsmpi_tile_c` (A, L, IPIV, B)

2.731 `morse_z::MORSE_ztrsmrv_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrsmrv_c` (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)
- integer(kind=c_int) function `morse_ztrsmrv_c` (side, uplo, transA, diag, N, NRHS, alpha, A, LDA, B, LDB)

2.732 `morse_z::MORSE_ztrsmrv_Tile_Async_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrsmrv_tile_async_c` (side, uplo, transA, diag, alpha, A, B, sequence, request)
- integer(kind=c_int) function `morse_ztrsmrv_tile_async_c` (side, uplo, transA, diag, alpha, A, B, sequence, request)

2.733 `morse_z::MORSE_ztrsmrv_Tile_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrsmrv_tile_c` (side, uplo, transA, diag, alpha, A, B)
- integer(kind=c_int) function `morse_ztrsmrv_tile_c` (side, uplo, transA, diag, alpha, A, B)

2.734 `morse_z::MORSE_ztrtri_c` Interface Reference

Public Member Functions

- integer(kind=c_int) function `morse_ztrtri_c` (uplo, diag, N, A, LDA)
- integer(kind=c_int) function `morse_ztrtri_c` (uplo, diag, N, A, LDA)

2.735 morse_z::MORSE_ztrtri_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrtri_tile_async_c** (uplo, diag, A, sequence, request)
- integer(kind=c_int) function **morse_ztrtri_tile_async_c** (uplo, diag, A, sequence, request)

2.736 morse_z::MORSE_ztrtri_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_ztrtri_tile_c** (uplo, diag, A)
- integer(kind=c_int) function **morse_ztrtri_tile_c** (uplo, diag, A)

2.737 morse_z::MORSE_zunglq_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunglq_c** (M, N, K, A, LDA, descT, B, LDB)
- integer(kind=c_int) function **morse_zunglq_c** (M, N, K, A, LDA, descT, B, LDB)

2.738 morse_z::MORSE_zunglq_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunglq_tile_async_c** (A, T, B, sequence, request)
- integer(kind=c_int) function **morse_zunglq_tile_async_c** (A, T, B, sequence, request)

2.739 morse_z::MORSE_zunglq_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunglq_tile_c** (A, T, B)
- integer(kind=c_int) function **morse_zunglq_tile_c** (A, T, B)

2.740 morse_z::MORSE_zungqr_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zungqr_c** (M, N, K, A, LDA, descT, B, LDB)
- integer(kind=c_int) function **morse_zungqr_c** (M, N, K, A, LDA, descT, B, LDB)

2.741 morse_z::MORSE_zungqr_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zungqr_tile_async_c** (A, T, B, sequence, request)
- integer(kind=c_int) function **morse_zungqr_tile_async_c** (A, T, B, sequence, request)

2.742 morse_z::MORSE_zungqr_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zungqr_tile_c** (A, T, B)
- integer(kind=c_int) function **morse_zungqr_tile_c** (A, T, B)

2.743 morse_z::MORSE_zunmlq_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunmlq_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)
- integer(kind=c_int) function **morse_zunmlq_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.744 morse_z::MORSE_zunmlq_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunmlq_tile_async_c** (side, trans, A, T, B, sequence, request)
- integer(kind=c_int) function **morse_zunmlq_tile_async_c** (side, trans, A, T, B, sequence, request)

2.745 morse_z::MORSE_zunmlq_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunmlq_tile_c** (side, trans, A, T, B)
- integer(kind=c_int) function **morse_zunmlq_tile_c** (side, trans, A, T, B)

2.746 morse_z::MORSE_zunmqr_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunmqr_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)
- integer(kind=c_int) function **morse_zunmqr_c** (side, trans, M, N, K, A, LDA, descT, B, LDB)

2.747 morse_z::MORSE_zunmqr_Tile_Async_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunmqr_tile_async_c** (side, trans, A, T, B, sequence, request)
- integer(kind=c_int) function **morse_zunmqr_tile_async_c** (side, trans, A, T, B, sequence, request)

2.748 morse_z::MORSE_zunmqr_Tile_c Interface Reference

Public Member Functions

- integer(kind=c_int) function **morse_zunmqr_tile_c** (side, trans, A, T, B)
- integer(kind=c_int) function **morse_zunmqr_tile_c** (side, trans, A, T, B)

2.749 primedec Struct Reference

Data Fields

- int **p**
- int **e**
- int **pe**

2.750 pthread_cond_s Struct Reference

Data Fields

- HANDLE **hSem**
- HANDLE **hEvt**
- CRITICAL_SECTION **cs**
- int **waitCount**

2.751 pthread_s Struct Reference

Data Fields

- HANDLE **hThread**
- unsigned int **uThId**

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