

```

1  int MPI_Win_free_keyval(int *win_keyval)
2
3  int MPI_Win_get_attr(MPI_Win win, int win_keyval, void *attribute_val,
4                      int *flag)
5
6  int MPI_Win_get_name(MPI_Win win, char *win_name, int *resultlen)
7
8  int MPI_Win_set_attr(MPI_Win win, int win_keyval, void *attribute_val)
9
10 int MPI_Win_set_name(MPI_Win win, char *win_name)

```

A.2.5 Process Topologies C Bindings

```

12 int MPI_Cart_coords(MPI_Comm comm, int rank, int maxdims, int *coords)
13
14 int MPI_Cart_create(MPI_Comm comm_old, int ndims, int *dims, int *periods,
15                   int reorder, MPI_Comm *comm_cart)
16
17 int MPI_Cart_get(MPI_Comm comm, int maxdims, int *dims, int *periods,
18                 int *coords)
19
20 int MPI_Cart_map(MPI_Comm comm, int ndims, int *dims, int *periods,
21                 int *newrank)
22
23 int MPI_Cart_rank(MPI_Comm comm, int *coords, int *rank)
24
25 int MPI_Cart_shift(MPI_Comm comm, int direction, int disp,
26                   int *rank_source, int *rank_dest)
27
28 int MPI_Cart_sub(MPI_Comm comm, int *remain_dims, MPI_Comm *newcomm)
29
30 int MPI_Cartdim_get(MPI_Comm comm, int *ndims)
31
32 int MPI_Dims_create(int nnodes, int ndims, int *dims)
33
34 int MPI_Dist_graph_create(MPI_Comm comm_old, int n, int sources[],
35                          int degrees[], int destinations[], int weights[],
36                          MPI_Info info, int reorder, MPI_Comm *comm_dist_graph)
37
38 int MPI_Dist_graph_create_adjacent(MPI_Comm comm_old, int indegree,
39                                   int sources[], int sourceweights[], int outdegree,
40                                   int destinations[], int destweights[], MPI_Info info,
41                                   int reorder, MPI_Comm *comm_dist_graph)
42
43 int MPI_Dist_graph_neighbors(MPI_Comm comm, int maxindegree, int sources[],
44                              int sourceweights[], int maxoutdegree, int destinations[],
45                              int destweights[])
46
47 int MPI_Dist_graph_neighbors_count(MPI_Comm comm, int *indegree,
48                                   int *outdegree, int *weighted)
49
50 int MPI_Graph_create(MPI_Comm comm_old, int nnodes, int *index, int *edges,
51                    int reorder, MPI_Comm *comm_graph)
52
53 int MPI_Graph_get(MPI_Comm comm, int maxindex, int maxedges, int *index,
54                  int *edges)

```