1 MPI\_DIST\_GRAPH\_CREATE, the constants MPI\_UNWEIGHTED, and the derived C++ ticket33. <sup>2</sup> class Distgraphcomm were added. 18. Section 7.5.4 on page 262. For the scalable distributed graph topology interface, the functions 5 MPI\_DIST\_NEIGHBORS\_COUNT and MPI\_DIST\_NEIGHBORS and the constant ticket3. 7 MPI\_DIST\_GRAPH were added. 19. Section 7.5.4 on page 262. 9 Remove ambiguity regarding duplicated neighbors with MPI\_GRAPH\_NEIGHBORS 10 ticket101. and MPI\_GRAPH\_NEIGHBORS\_COUNT. 20. Section 8.1.1 on page 273. 12 The subversion number changed from 1 to 2. ticket7. 13 14 21. Section 8.3 on page 278, Section ?? on page ??, and Annex A.1.3 on page 519. 15 Changed function pointer typedef names MPI\_{Comm,File,Win}\_errhandler\_fn to 16 ticket<br/>71.  $_{\scriptscriptstyle 17}$ MPI\_{Comm,File,Win}\_errhandler\_function. Deprecated old "\_fn" names. 18 22. Section 8.7.1 on page 297. 19 Attribute deletion callbacks on MPI\_COMM\_SELF are now called in LIFO order. Imple-20 mentors must now also register all implementation-internal attribute deletion callbacks ticket43.21on MPI\_COMM\_SELF before returning from MPI\_INIT/MPI\_INIT\_THREAD. 22 23. Section 11.3.4 on page 347. 23 The restriction added in MPI 2.1 that the operation MPI\_REPLACE in 24 MPI\_ACCUMULATE can be used only with predefined datatypes has been removed. 25 MPI\_REPLACE can now be used even with derived datatypes, as it was in MPI 2.0. 26 Also, a clarification has been made that MPI\_REPLACE can be used only in 27 MPI\_ACCUMULATE, not in collective operations that do reductions, such as 28 ticket 6.  $_{29}$ MPI\_REDUCE and others. 30 24. Section 12.2 on page 373. 31 Add "\*" to the query\_fn, free\_fn, and cancel\_fn arguments to the C++ binding for 32 MPI::Grequest::Start() for consistency with the rest of MPI functions that take function 33 ticket18. pointer arguments. 34 25. Section 13.5.2 on page 430, and Table 13.2 on page 432. 35 MPI\_(U)INT{8,16,32,64}\_T, MPI\_AINT, MPI\_OFFSET, MPI\_C\_COMPLEX, 36 MPI\_C\_FLOAT\_COMPLEX, MPI\_C\_DOUBLE\_COMPLEX, MPI\_C\_LONG\_DOUBLE\_COMPLEX, 37 and MPI\_C\_BOOL are added as predefined datatypes in the external 22 representation. 38 ticket55.39 26. Section 16.3.7 on page 502. 41 The description was modified that it only describes how an MPI implementation be-42 haves, but not how MPI stores attributes internally. The erroneous MPI-2.1 Example 43 16.17 was replaced with three new examples ??, ??, and ?? on pages ??-?? explic-44 itly detailing cross-language attribute behavior. Implementations that matched the ticket 4.  $_{46}$ behavior of the old example will need to be updated. 27. Annex A.1.1 on page 507. ticket18. 48 Removed type MPI::Fint (compare MPI\_Fint in Section A.1.2 on page 518).