```
  1 Reading package lists...
  2 Building dependency tree...
  3 Reading state information...
  4 The following additional packages will be installed:
  5   fonts-mathjax ksh ksh93u+m libc6-i386 libegl-dev libfftw3-bin libfftw3-dev
  6   libfftw3-mpi-dev libfftw3-quad3 libgl-dev libgl1-mesa-dev libgles-dev
  7   libgles1 libgles2 libglvnd-core-dev libglvnd-dev libglx-dev libgraphblas-dev
  8   libgraphblas6 libhdf5-mpi-dev libhdf5-openmpi-cpp-103-1 libhdf5-openmpi-dev
  9   libhdf5-openmpi-fortran-102 libhdf5-openmpi-hl-100
 10   libhdf5-openmpi-hl-cpp-100 libhdf5-openmpi-hl-fortran-100 libhypre64m-2.22.1
 11   libhypre64m-dev libjs-mathjax libldl2 libmongoose2 libmumps-64pord-5.4
 12   libmumps-dev libmumps-headers-dev libmumps64-dev libopengl-dev
 13   libpetsc-real3.15-dev libpetsc3.15-dev-common libpetsc3.15-dev-examples
 14   libpetsc64-real-dev libpetsc64-real3.15 libpetsc64-real3.15-dev
 15   libpthread-stubs0-dev libptscotch-dev librbio2 libscotch-dev libsliplu1
 16   libspqr2 libsuitesparse-dev libsuperlu-dist-dev libtrilinos-aztecoo-dev
 17   libtrilinos-ml-dev libtrilinos-trilinosss-dev libtrilinos-zoltan-dev
 18   libx11-dev libxau-dev libxcb1-dev libxdmcp-dev libyaml-dev
 19   ocl-icd-opencl-dev opencl-c-headers opencl-clhpp-headers trilinos-dev
 20   valgrind valgrind-mpi x11proto-dev xorg-sgml-doctools xtrans-dev
 21 Suggested packages:
 22   libfftw3-doc libhdf5-doc fonts-mathjax-extras fonts-stix libjs-mathjax-doc
 23   petsc-dev libpetsc-real3.15-dbg petsc3.15-doc libluminate-dev
 24   libpetsc64-real3.15-dbg trilinos-doc libx11-doc libxcb-doc libyaml-doc
 25   opencl-clhpp-headers-doc valgrind-dbg kcachegrind alleyoop valkyrie
 26 The following NEW packages will be installed:
 27   fonts-mathjax ksh ksh93u+m libc6-i386 libegl-dev libfftw3-bin libfftw3-dev
 28   libfftw3-mpi-dev libfftw3-quad3 libgl-dev libgl1-mesa-dev libgles-dev
 29   libgles1 libgles2 libglvnd-core-dev libglvnd-dev libglx-dev libgraphblas-dev
 30   libgraphblas6 libhdf5-mpi-dev libhdf5-openmpi-cpp-103-1 libhdf5-openmpi-dev
 31   libhdf5-openmpi-fortran-102 libhdf5-openmpi-hl-100
 32   libhdf5-openmpi-hl-cpp-100 libhdf5-openmpi-hl-fortran-100 libhypre64m-2.22.1
 33   libhypre64m-dev libjs-mathjax libldl2 libmongoose2 libmumps-64pord-5.4
 34   libmumps-dev libmumps-headers-dev libmumps64-dev libopengl-dev
 35   libpetsc-real3.15-dev libpetsc3.15-dev-common libpetsc3.15-dev-examples
 36   libpetsc64-real-dev libpetsc64-real3.15 libpetsc64-real3.15-dev
 37   libpthread-stubs0-dev libptscotch-dev librbio2 libscotch-dev libsliplu1
 38   libspqr2 libsuitesparse-dev libsuperlu-dist-dev libtrilinos-aztecoo-dev
 39   libtrilinos-ml-dev libtrilinos-trilinosss-dev libtrilinos-zoltan-dev
 40   libx11-dev libxau-dev libxcb1-dev libxdmcp-dev libyaml-dev
 41   ocl-icd-opencl-dev opencl-c-headers opencl-clhpp-headers petsc64-dev
 42   trilinos-dev valgrind valgrind-mpi x11proto-dev xorg-sgml-doctools
 43   xtrans-dev
 44 0 upgraded, 69 newly installed, 0 to remove and 0 not upgraded.
 45 Need to get 90.7 MB of archives.
 46 After this operation, 497 MB of additional disk space will be used.
 47 Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-mathjax all 2.7.9+dfsg-1 [2208 kB]
 48 Get:2 http://archive.ubuntu.com/ubuntu jammy/universe amd64 ksh93u+m amd64 1.0.0~beta.2-1 [894 kB]
 49 Get:3 http://archive.ubuntu.com/ubuntu jammy/universe amd64 ksh all 20211217 [6474 B]
 50 Get:4 http://archive.ubuntu.com/ubuntu jammy/main amd64 libc6-i386 amd64 2.35-0ubuntu3 [2838 kB]
 51 Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 xorg-sgml-doctools all 1:1.11-1.1 [10.9 kB]
 52 Get:6 http://archive.ubuntu.com/ubuntu jammy/main amd64 x11proto-dev all 2021.5-1 [604 kB]
 53 Get:7 http://archive.ubuntu.com/ubuntu jammy/main amd64 libxau-dev amd64 1:1.0.9-1build5 [9724 B]
 54 Get:8 http://archive.ubuntu.com/ubuntu jammy/main amd64 libxdmcp-dev amd64 1:1.1.3-0ubuntu5 [26.5 kB]
 55 Get:9 http://archive.ubuntu.com/ubuntu jammy/main amd64 xtrans-dev all 1.4.0-1 [68.9 kB]
 56 Get:10 http://archive.ubuntu.com/ubuntu jammy/main amd64 libpthread-stubs0-dev amd64 0.4-1build2 [5516
 …  B]
 57 Get:11 http://archive.ubuntu.com/ubuntu jammy/main amd64 libxcb1-dev amd64 1.14-3ubuntu3 [86.5 kB]
 58 Get:12 http://archive.ubuntu.com/ubuntu jammy/main amd64 libx11-dev amd64 2:1.7.5-1 [744 kB]
 59 Get:13 http://archive.ubuntu.com/ubuntu jammy/main amd64 libglx-dev amd64 1.4.0-1 [14.1 kB]
 60 Get:14 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgl-dev amd64 1.4.0-1 [101 kB]
 61 Get:15 http://archive.ubuntu.com/ubuntu jammy/main amd64 libegl-dev amd64 1.4.0-1 [18.0 kB]
 62 Get:16 http://archive.ubuntu.com/ubuntu jammy/main amd64 libfftw3-quad3 amd64 3.3.8-2ubuntu8 [614 kB]
 63 Get:17 http://archive.ubuntu.com/ubuntu jammy/main amd64 libfftw3-bin amd64 3.3.8-2ubuntu8 [35.5 kB]
 64 Get:18 http://archive.ubuntu.com/ubuntu jammy/main amd64 libfftw3-dev amd64 3.3.8-2ubuntu8 [2101 kB]
```

```
 65  Get:19 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libfftw3-mpi-dev amd64 3.3.8-2ubuntu8
  …  [53.3 kB]
 66  Get:20 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgles1 amd64 1.4.0-1 [11.5 kB]
 67  Get:21 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgles2 amd64 1.4.0-1 [18.0 kB]
 68  Get:22 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgles-dev amd64 1.4.0-1 [49.4 kB]
 69  Get:23 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libgraphblas6 amd64 6.1.4+dfsg-2 [20.1
  …  MB]
 70  Get:24 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libgraphblas-dev amd64 6.1.4+dfsg-2 [54.4
  …  kB]
 71  Get:25 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-openmpi-cpp-103-1 amd64
  …  1.10.7+repack-4ubuntu2 [129 kB]
 72  Get:26 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-openmpi-fortran-102 amd64
  …  1.10.7+repack-4ubuntu2 [90.6 kB]
 73  Get:27 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-openmpi-hl-100 amd64
  …  1.10.7+repack-4ubuntu2 [59.2 kB]
 74  Get:28 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-openmpi-hl-cpp-100 amd64
  …  1.10.7+repack-4ubuntu2 [10.7 kB]
 75  Get:29 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-openmpi-hl-fortran-100 amd64
  …  1.10.7+repack-4ubuntu2 [33.5 kB]
 76  Get:30 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhypre64m-2.22.1 amd64 2.22.1-7 [1468
  …  kB]
 77  Get:31 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhypre64m-dev amd64 2.22.1-7 [1719 kB]
 78  Get:32 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libldl2 amd64 1:5.10.1+dfsg-4build1 [11.7
  …  kB]
 79  Get:33 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libmongoose2 amd64 1:5.10.1+dfsg-4build1
  …  [33.5 kB]
 80  Get:34 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libmumps-64pord-5.4 amd64 5.4.1-2 [1824
  …  kB]
 81  Get:35 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libmumps-headers-dev all 5.4.1-2 [19.7
  …  kB]
 82  Get:36 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libmumps64-dev amd64 5.4.1-2 [1724 kB]
 83  Get:37 http://archive.ubuntu.com/ubuntu jammy/main amd64 libopengl-dev amd64 1.4.0-1 [3400 B]
 84  Get:38 http://archive.ubuntu.com/ubuntu jammy/main amd64 libjs-mathjax all 2.7.9+dfsg-1 [5665 kB]
 85  Get:39 http://archive.ubuntu.com/ubuntu jammy/universe amd64 librbio2 amd64 1:5.10.1+dfsg-4build1
  …  [26.6 kB]
 86  Get:40 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libspqr2 amd64 1:5.10.1+dfsg-4build1
  …  [71.6 kB]
 87  Get:41 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libsliplu1 amd64 1:5.10.1+dfsg-4build1
  …  [37.1 kB]
 88  Get:42 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libsuitesparse-dev amd64
  …  1:5.10.1+dfsg-4build1 [1058 kB]
 89  Get:43 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libscotch-dev amd64 6.1.3-1 [1450 kB]
 90  Get:44 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libptscotch-dev amd64 6.1.3-1 [1271 kB]
 91  Get:45 http://archive.ubuntu.com/ubuntu jammy/universe amd64 opencl-c-headers all 3.0~2022.01.04-1
  …  [44.5 kB]
 92  Get:46 http://archive.ubuntu.com/ubuntu jammy/universe amd64 opencl-clhpp-headers all
  …  3.0~2.0.15-1ubuntu1 [42.6 kB]
 93  Get:47 http://archive.ubuntu.com/ubuntu jammy/universe amd64 ocl-icd-opencl-dev amd64 2.2.14-3 [2426
  …  B]
 94  Get:48 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-openmpi-dev amd64
  …  1.10.7+repack-4ubuntu2 [2750 kB]
 95  Get:49 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libhdf5-mpi-dev amd64
  …  1.10.7+repack-4ubuntu2 [4610 B]
 96  Get:50 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libsuperlu-dist-dev amd64 7.2.0+dfsg1-2
  …  [872 kB]
 97  Get:51 http://archive.ubuntu.com/ubuntu jammy/main amd64 libyaml-dev amd64 0.2.2-1build2 [62.8 kB]
 98  Get:52 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpetsc3.15-dev-common all
  …  3.15.5+dfsg1-1build2 [185 kB]
 99  Get:53 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libmumps-dev amd64 5.4.1-2 [1725 kB]
100  Get:54 http://archive.ubuntu.com/ubuntu jammy/universe amd64 trilinos-dev amd64 13.2.0-1ubuntu1 [12.6
  …  kB]
101  Get:55 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libtrilinos-aztecoo-dev amd64
  …  13.2.0-1ubuntu1 [50.0 kB]
102  Get:56 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libtrilinos-trilinosss-dev amd64
  …  13.2.0-1ubuntu1 [32.2 kB]
```

```
103  Get:57 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libtrilinos-ml-dev amd64 13.2.0-1ubuntu1
…    [117 kB]
104  Get:58 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libtrilinos-zoltan-dev amd64
…    13.2.0-1ubuntu1 [32.2 kB]
105  Get:59 http://archive.ubuntu.com/ubuntu jammy/main amd64 valgrind amd64 1:3.18.1-1ubuntu2 [14.1 MB]
106  Get:60 http://archive.ubuntu.com/ubuntu jammy/universe amd64 valgrind-mpi amd64 1:3.18.1-1ubuntu2
…    [46.6 kB]
107  Get:61 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpetsc-real3.15-dev amd64
…    3.15.5+dfsg1-1build2 [6433 kB]
108  Get:62 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpetsc3.15-dev-examples all
…    3.15.5+dfsg1-1build2 [4389 kB]
109  Get:63 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpetsc64-real3.15 amd64
…    3.15.5+dfsg1-1build2 [5999 kB]
110  Get:64 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpetsc64-real3.15-dev amd64
…    3.15.5+dfsg1-1build2 [6446 kB]
111  Get:65 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpetsc64-real-dev all
…    3.15.5+dfsg1-1build2 [3932 B]
112  Get:66 http://archive.ubuntu.com/ubuntu jammy/universe amd64 petsc64-dev all 3.15.5+dfsg1-1build2
…    [3960 B]
113  Get:67 http://archive.ubuntu.com/ubuntu jammy/main amd64 libglvnd-core-dev amd64 1.4.0-1 [12.7 kB]
114  Get:68 http://archive.ubuntu.com/ubuntu jammy/main amd64 libglvnd-dev amd64 1.4.0-1 [3162 B]
115  Get:69 http://archive.ubuntu.com/ubuntu jammy/main amd64 libgl1-mesa-dev amd64 22.0.1-1ubuntu2 [6666
…    B]
116  Fetched 90.7 MB in 3s (28.0 MB/s)
117  Selecting previously unselected package fonts-mathjax.¿
118  (Reading database ... ¿(Reading database ... 5%¿(Reading database ... 10%¿(Reading database ...
…    15%¿(Reading database ... 20%¿(Reading database ... 25%¿(Reading database ... 30%¿(Reading database
…    ... 35%¿(Reading database ... 40%¿(Reading database ... 45%¿(Reading database ... 50%¿(Reading
…    database ... 55%¿(Reading database ... 60%¿(Reading database ... 65%¿(Reading database ...
…    70%¿(Reading database ... 75%¿(Reading database ... 80%¿(Reading database ... 85%¿(Reading database
…    ... 90%¿(Reading database ... 95%¿(Reading database ... 100%¿(Reading database ... 124492 files and
…    directories currently installed.)¿
119  Preparing to unpack .../00-fonts-mathjax_2.7.9+dfsg-1_all.deb ...¿
120  Unpacking fonts-mathjax (2.7.9+dfsg-1) ...¿
121  Selecting previously unselected package ksh93u+m.¿
122  Preparing to unpack .../01-ksh93u+m_1.0.0~beta.2-1_amd64.deb ...¿
123  Unpacking ksh93u+m (1.0.0~beta.2-1) ...¿
124  Selecting previously unselected package ksh.¿
125  Preparing to unpack .../02-ksh_20211217_all.deb ...¿
126  Unpacking ksh (20211217) ...¿
127  Selecting previously unselected package libc6-i386.¿
128  Preparing to unpack .../03-libc6-i386_2.35-0ubuntu3_amd64.deb ...¿
129  Unpacking libc6-i386 (2.35-0ubuntu3) ...¿
130  Selecting previously unselected package xorg-sgml-doctools.¿
131  Preparing to unpack .../04-xorg-sgml-doctools_1%3a1.11-1.1_all.deb ...¿
132  Unpacking xorg-sgml-doctools (1:1.11-1.1) ...¿
133  Selecting previously unselected package x11proto-dev.¿
134  Preparing to unpack .../05-x11proto-dev_2021.5-1_all.deb ...¿
135  Unpacking x11proto-dev (2021.5-1) ...¿
136  Selecting previously unselected package libxau-dev:amd64.¿
137  Preparing to unpack .../06-libxau-dev_1%3a1.0.9-1build5_amd64.deb ...¿
138  Unpacking libxau-dev:amd64 (1:1.0.9-1build5) ...¿
139  Selecting previously unselected package libxdmcp-dev:amd64.¿
140  Preparing to unpack .../07-libxdmcp-dev_1%3a1.1.3-0ubuntu5_amd64.deb ...¿
141  Unpacking libxdmcp-dev:amd64 (1:1.1.3-0ubuntu5) ...¿
142  Selecting previously unselected package xtrans-dev.¿
143  Preparing to unpack .../08-xtrans-dev_1.4.0-1_all.deb ...¿
144  Unpacking xtrans-dev (1.4.0-1) ...¿
145  Selecting previously unselected package libpthread-stubs0-dev:amd64.¿
146  Preparing to unpack .../09-libpthread-stubs0-dev_0.4-1build2_amd64.deb ...¿
147  Unpacking libpthread-stubs0-dev:amd64 (0.4-1build2) ...¿
148  Selecting previously unselected package libxcb1-dev:amd64.¿
149  Preparing to unpack .../10-libxcb1-dev_1.14-3ubuntu3_amd64.deb ...¿
150  Unpacking libxcb1-dev:amd64 (1.14-3ubuntu3) ...¿
151  Selecting previously unselected package libx11-dev:amd64.¿
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152 Preparing to unpack .../11-libx11-dev_2%3a1.7.5-1_amd64.deb ...¿
153 Unpacking libx11-dev:amd64 (2:1.7.5-1) ...¿
154 Selecting previously unselected package libglx-dev:amd64.¿
155 Preparing to unpack .../12-libglx-dev_1.4.0-1_amd64.deb ...¿
156 Unpacking libglx-dev:amd64 (1.4.0-1) ...¿
157 Selecting previously unselected package libgl-dev:amd64.¿
158 Preparing to unpack .../13-libgl-dev_1.4.0-1_amd64.deb ...¿
159 Unpacking libgl-dev:amd64 (1.4.0-1) ...¿
160 Selecting previously unselected package libegl-dev:amd64.¿
161 Preparing to unpack .../14-libegl-dev_1.4.0-1_amd64.deb ...¿
162 Unpacking libegl-dev:amd64 (1.4.0-1) ...¿
163 Selecting previously unselected package libfftw3-quad3:amd64.¿
164 Preparing to unpack .../15-libfftw3-quad3_3.3.8-2ubuntu8_amd64.deb ...¿
165 Unpacking libfftw3-quad3:amd64 (3.3.8-2ubuntu8) ...¿
166 Selecting previously unselected package libfftw3-bin.¿
167 Preparing to unpack .../16-libfftw3-bin_3.3.8-2ubuntu8_amd64.deb ...¿
168 Unpacking libfftw3-bin (3.3.8-2ubuntu8) ...¿
169 Selecting previously unselected package libfftw3-dev:amd64.¿
170 Preparing to unpack .../17-libfftw3-dev_3.3.8-2ubuntu8_amd64.deb ...¿
171 Unpacking libfftw3-dev:amd64 (3.3.8-2ubuntu8) ...¿
172 Selecting previously unselected package libfftw3-mpi-dev:amd64.¿
173 Preparing to unpack .../18-libfftw3-mpi-dev_3.3.8-2ubuntu8_amd64.deb ...¿
174 Unpacking libfftw3-mpi-dev:amd64 (3.3.8-2ubuntu8) ...¿
175 Selecting previously unselected package libgles1:amd64.¿
176 Preparing to unpack .../19-libgles1_1.4.0-1_amd64.deb ...¿
177 Unpacking libgles1:amd64 (1.4.0-1) ...¿
178 Selecting previously unselected package libgles2:amd64.¿
179 Preparing to unpack .../20-libgles2_1.4.0-1_amd64.deb ...¿
180 Unpacking libgles2:amd64 (1.4.0-1) ...¿
181 Selecting previously unselected package libgles-dev:amd64.¿
182 Preparing to unpack .../21-libgles-dev_1.4.0-1_amd64.deb ...¿
183 Unpacking libgles-dev:amd64 (1.4.0-1) ...¿
184 Selecting previously unselected package libgraphblas6:amd64.¿
185 Preparing to unpack .../22-libgraphblas6_6.1.4+dfsg-2_amd64.deb ...¿
186 Unpacking libgraphblas6:amd64 (6.1.4+dfsg-2) ...¿
187 Selecting previously unselected package libgraphblas-dev:amd64.¿
188 Preparing to unpack .../23-libgraphblas-dev_6.1.4+dfsg-2_amd64.deb ...¿
189 Unpacking libgraphblas-dev:amd64 (6.1.4+dfsg-2) ...¿
190 Selecting previously unselected package libhdf5-openmpi-cpp-103-1:amd64.¿
191 Preparing to unpack .../24-libhdf5-openmpi-cpp-103-1_1.10.7+repack-4ubuntu2_amd64.deb ...¿
192 Unpacking libhdf5-openmpi-cpp-103-1:amd64 (1.10.7+repack-4ubuntu2) ...¿
193 Selecting previously unselected package libhdf5-openmpi-fortran-102:amd64.¿
194 Preparing to unpack .../25-libhdf5-openmpi-fortran-102_1.10.7+repack-4ubuntu2_amd64.deb ...¿
195 Unpacking libhdf5-openmpi-fortran-102:amd64 (1.10.7+repack-4ubuntu2) ...¿
196 Selecting previously unselected package libhdf5-openmpi-hl-100:amd64.¿
197 Preparing to unpack .../26-libhdf5-openmpi-hl-100_1.10.7+repack-4ubuntu2_amd64.deb ...¿
198 Unpacking libhdf5-openmpi-hl-100:amd64 (1.10.7+repack-4ubuntu2) ...¿
199 Selecting previously unselected package libhdf5-openmpi-hl-cpp-100:amd64.¿
200 Preparing to unpack .../27-libhdf5-openmpi-hl-cpp-100_1.10.7+repack-4ubuntu2_amd64.deb ...¿
201 Unpacking libhdf5-openmpi-hl-cpp-100:amd64 (1.10.7+repack-4ubuntu2) ...¿
202 Selecting previously unselected package libhdf5-openmpi-hl-fortran-100:amd64.¿
203 Preparing to unpack .../28-libhdf5-openmpi-hl-fortran-100_1.10.7+repack-4ubuntu2_amd64.deb ...¿
204 Unpacking libhdf5-openmpi-hl-fortran-100:amd64 (1.10.7+repack-4ubuntu2) ...¿
205 Selecting previously unselected package libhypre64m-2.22.1:amd64.¿
206 Preparing to unpack .../29-libhypre64m-2.22.1_2.22.1-7_amd64.deb ...¿
207 Unpacking libhypre64m-2.22.1:amd64 (2.22.1-7) ...¿
208 Selecting previously unselected package libhypre64m-dev:amd64.¿
209 Preparing to unpack .../30-libhypre64m-dev_2.22.1-7_amd64.deb ...¿
210 Unpacking libhypre64m-dev:amd64 (2.22.1-7) ...¿
211 Selecting previously unselected package libldl2:amd64.¿
212 Preparing to unpack .../31-libldl2_1%3a5.10.1+dfsg-4build1_amd64.deb ...¿
213 Unpacking libldl2:amd64 (1:5.10.1+dfsg-4build1) ...¿
214 Selecting previously unselected package libmongoose2:amd64.¿
215 Preparing to unpack .../32-libmongoose2_1%3a5.10.1+dfsg-4build1_amd64.deb ...¿
216 Unpacking libmongoose2:amd64 (1:5.10.1+dfsg-4build1) ...¿
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217 Selecting previously unselected package libmumps-64pord-5.4:amd64.¿
218 Preparing to unpack .../33-libmumps-64pord-5.4_5.4.1-2_amd64.deb ...¿
219 Unpacking libmumps-64pord-5.4:amd64 (5.4.1-2) ...¿
220 Selecting previously unselected package libmumps-headers-dev.¿
221 Preparing to unpack .../34-libmumps-headers-dev_5.4.1-2_all.deb ...¿
222 Unpacking libmumps-headers-dev (5.4.1-2) ...¿
223 Selecting previously unselected package libmumps64-dev:amd64.¿
224 Preparing to unpack .../35-libmumps64-dev_5.4.1-2_amd64.deb ...¿
225 Unpacking libmumps64-dev:amd64 (5.4.1-2) ...¿
226 Selecting previously unselected package libopengl-dev:amd64.¿
227 Preparing to unpack .../36-libopengl-dev_1.4.0-1_amd64.deb ...¿
228 Unpacking libopengl-dev:amd64 (1.4.0-1) ...¿
229 Selecting previously unselected package libjs-mathjax.¿
230 Preparing to unpack .../37-libjs-mathjax_2.7.9+dfsg-1_all.deb ...¿
231 Unpacking libjs-mathjax (2.7.9+dfsg-1) ...¿
232 Selecting previously unselected package librbio2:amd64.¿
233 Preparing to unpack .../38-librbio2_1%3a5.10.1+dfsg-4build1_amd64.deb ...¿
234 Unpacking librbio2:amd64 (1:5.10.1+dfsg-4build1) ...¿
235 Selecting previously unselected package libspqr2:amd64.¿
236 Preparing to unpack .../39-libspqr2_1%3a5.10.1+dfsg-4build1_amd64.deb ...¿
237 Unpacking libspqr2:amd64 (1:5.10.1+dfsg-4build1) ...¿
238 Selecting previously unselected package libsliplu1:amd64.¿
239 Preparing to unpack .../40-libsliplu1_1%3a5.10.1+dfsg-4build1_amd64.deb ...¿
240 Unpacking libsliplu1:amd64 (1:5.10.1+dfsg-4build1) ...¿
241 Selecting previously unselected package libsuitesparse-dev:amd64.¿
242 Preparing to unpack .../41-libsuitesparse-dev_1%3a5.10.1+dfsg-4build1_amd64.deb ...¿
243 Unpacking libsuitesparse-dev:amd64 (1:5.10.1+dfsg-4build1) ...¿
244 Selecting previously unselected package libscotch-dev.¿
245 Preparing to unpack .../42-libscotch-dev_6.1.3-1_amd64.deb ...¿
246 Unpacking libscotch-dev (6.1.3-1) ...¿
247 Selecting previously unselected package libptscotch-dev.¿
248 Preparing to unpack .../43-libptscotch-dev_6.1.3-1_amd64.deb ...¿
249 Unpacking libptscotch-dev (6.1.3-1) ...¿
250 Selecting previously unselected package opencl-c-headers.¿
251 Preparing to unpack .../44-opencl-c-headers_3.0~2022.01.04-1_all.deb ...¿
252 Unpacking opencl-c-headers (3.0~2022.01.04-1) ...¿
253 Selecting previously unselected package opencl-clhpp-headers.¿
254 Preparing to unpack .../45-opencl-clhpp-headers_3.0~2.0.15-1ubuntu1_all.deb ...¿
255 Unpacking opencl-clhpp-headers (3.0~2.0.15-1ubuntu1) ...¿
256 Selecting previously unselected package ocl-icd-opencl-dev:amd64.¿
257 Preparing to unpack .../46-ocl-icd-opencl-dev_2.2.14-3_amd64.deb ...¿
258 Unpacking ocl-icd-opencl-dev:amd64 (2.2.14-3) ...¿
259 Selecting previously unselected package libhdf5-openmpi-dev.¿
260 Preparing to unpack .../47-libhdf5-openmpi-dev_1.10.7+repack-4ubuntu2_amd64.deb ...¿
261 Unpacking libhdf5-openmpi-dev (1.10.7+repack-4ubuntu2) ...¿
262 Selecting previously unselected package libhdf5-mpi-dev.¿
263 Preparing to unpack .../48-libhdf5-mpi-dev_1.10.7+repack-4ubuntu2_amd64.deb ...¿
264 Unpacking libhdf5-mpi-dev (1.10.7+repack-4ubuntu2) ...¿
265 Selecting previously unselected package libsuperlu-dist-dev:amd64.¿
266 Preparing to unpack .../49-libsuperlu-dist-dev_7.2.0+dfsg1-2_amd64.deb ...¿
267 Unpacking libsuperlu-dist-dev:amd64 (7.2.0+dfsg1-2) ...¿
268 Selecting previously unselected package libyaml-dev:amd64.¿
269 Preparing to unpack .../50-libyaml-dev_0.2.2-1build2_amd64.deb ...¿
270 Unpacking libyaml-dev:amd64 (0.2.2-1build2) ...¿
271 Selecting previously unselected package libpetsc3.15-dev-common.¿
272 Preparing to unpack .../51-libpetsc3.15-dev-common_3.15.5+dfsg1-1build2_all.deb ...¿
273 Unpacking libpetsc3.15-dev-common (3.15.5+dfsg1-1build2) ...¿
274 Selecting previously unselected package libmumps-dev:amd64.¿
275 Preparing to unpack .../52-libmumps-dev_5.4.1-2_amd64.deb ...¿
276 Unpacking libmumps-dev:amd64 (5.4.1-2) ...¿
277 Selecting previously unselected package trilinos-dev:amd64.¿
278 Preparing to unpack .../53-trilinos-dev_13.2.0-1ubuntu1_amd64.deb ...¿
279 Unpacking trilinos-dev:amd64 (13.2.0-1ubuntu1) ...¿
280 Selecting previously unselected package libtrilinos-aztecoo-dev:amd64.¿
281 Preparing to unpack .../54-libtrilinos-aztecoo-dev_13.2.0-1ubuntu1_amd64.deb ...¿
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282 Unpacking libtrilinos-aztecoo-dev:amd64 (13.2.0-1ubuntu1) ...¿
283 Selecting previously unselected package libtrilinos-trilinosss-dev:amd64.¿
284 Preparing to unpack .../55-libtrilinos-trilinosss-dev_13.2.0-1ubuntu1_amd64.deb ...¿
285 Unpacking libtrilinos-trilinosss-dev:amd64 (13.2.0-1ubuntu1) ...¿
286 Selecting previously unselected package libtrilinos-ml-dev:amd64.¿
287 Preparing to unpack .../56-libtrilinos-ml-dev_13.2.0-1ubuntu1_amd64.deb ...¿
288 Unpacking libtrilinos-ml-dev:amd64 (13.2.0-1ubuntu1) ...¿
289 Selecting previously unselected package libtrilinos-zoltan-dev:amd64.¿
290 Preparing to unpack .../57-libtrilinos-zoltan-dev_13.2.0-1ubuntu1_amd64.deb ...¿
291 Unpacking libtrilinos-zoltan-dev:amd64 (13.2.0-1ubuntu1) ...¿
292 Selecting previously unselected package valgrind.¿
293 Preparing to unpack .../58-valgrind_1%3a3.18.1-1ubuntu2_amd64.deb ...¿
294 Unpacking valgrind (1:3.18.1-1ubuntu2) ...¿
295 Selecting previously unselected package valgrind-mpi.¿
296 Preparing to unpack .../59-valgrind-mpi_1%3a3.18.1-1ubuntu2_amd64.deb ...¿
297 Unpacking valgrind-mpi (1:3.18.1-1ubuntu2) ...¿
298 Selecting previously unselected package libpetsc-real3.15-dev:amd64.¿
299 Preparing to unpack .../60-libpetsc-real3.15-dev_3.15.5+dfsg1-1build2_amd64.deb ...¿
300 Unpacking libpetsc-real3.15-dev:amd64 (3.15.5+dfsg1-1build2) ...¿
301 Selecting previously unselected package libpetsc3.15-dev-examples.¿
302 Preparing to unpack .../61-libpetsc3.15-dev-examples_3.15.5+dfsg1-1build2_all.deb ...¿
303 Unpacking libpetsc3.15-dev-examples (3.15.5+dfsg1-1build2) ...¿
304 Selecting previously unselected package libpetsc64-real3.15:amd64.¿
305 Preparing to unpack .../62-libpetsc64-real3.15_3.15.5+dfsg1-1build2_amd64.deb ...¿
306 Unpacking libpetsc64-real3.15:amd64 (3.15.5+dfsg1-1build2) ...¿
307 Selecting previously unselected package libpetsc64-real3.15-dev:amd64.¿
308 Preparing to unpack .../63-libpetsc64-real3.15-dev_3.15.5+dfsg1-1build2_amd64.deb ...¿
309 Unpacking libpetsc64-real3.15-dev:amd64 (3.15.5+dfsg1-1build2) ...¿
310 Selecting previously unselected package libpetsc64-real-dev.¿
311 Preparing to unpack .../64-libpetsc64-real-dev_3.15.5+dfsg1-1build2_all.deb ...¿
312 Unpacking libpetsc64-real-dev (3.15.5+dfsg1-1build2) ...¿
313 Selecting previously unselected package petsc64-dev.¿
314 Preparing to unpack .../65-petsc64-dev_3.15.5+dfsg1-1build2_all.deb ...¿
315 Unpacking petsc64-dev (3.15.5+dfsg1-1build2) ...¿
316 Selecting previously unselected package libglvnd-core-dev:amd64.¿
317 Preparing to unpack .../66-libglvnd-core-dev_1.4.0-1_amd64.deb ...¿
318 Unpacking libglvnd-core-dev:amd64 (1.4.0-1) ...¿
319 Selecting previously unselected package libglvnd-dev:amd64.¿
320 Preparing to unpack .../67-libglvnd-dev_1.4.0-1_amd64.deb ...¿
321 Unpacking libglvnd-dev:amd64 (1.4.0-1) ...¿
322 Selecting previously unselected package libgl1-mesa-dev:amd64.¿
323 Preparing to unpack .../68-libgl1-mesa-dev_22.0.1-1ubuntu2_amd64.deb ...¿
324 Unpacking libgl1-mesa-dev:amd64 (22.0.1-1ubuntu2) ...¿
325 Setting up libspqr2:amd64 (1:5.10.1+dfsg-4build1) ...¿
326 Setting up fonts-mathjax (2.7.9+dfsg-1) ...¿
327 Setting up libglvnd-core-dev:amd64 (1.4.0-1) ...¿
328 Setting up libscotch-dev (6.1.3-1) ...¿
329 Setting up libjs-mathjax (2.7.9+dfsg-1) ...¿
330 Setting up trilinos-dev:amd64 (13.2.0-1ubuntu1) ...¿
331 Setting up libyaml-dev:amd64 (0.2.2-1build2) ...¿
332 Setting up libgraphblas6:amd64 (6.1.4+dfsg-2) ...¿
333 Setting up libfftw3-mpi-dev:amd64 (3.3.8-2ubuntu8) ...¿
334 Setting up libldl2:amd64 (1:5.10.1+dfsg-4build1) ...¿
335 Setting up libptscotch-dev (6.1.3-1) ...¿
336 Setting up libpthread-stubs0-dev:amd64 (0.4-1build2) ...¿
337 Setting up libsuperlu-dist-dev:amd64 (7.2.0+dfsg1-2) ...¿
338 Setting up libsliplu1:amd64 (1:5.10.1+dfsg-4build1) ...¿
339 Setting up libmongoose2:amd64 (1:5.10.1+dfsg-4build1) ...¿
340 Setting up xtrans-dev (1.4.0-1) ...¿
341 Setting up libgraphblas-dev:amd64 (6.1.4+dfsg-2) ...¿
342 Setting up libmumps-64pord-5.4:amd64 (5.4.1-2) ...¿
343 Setting up libgles2:amd64 (1.4.0-1) ...¿
344 Setting up libhdf5-openmpi-fortran-102:amd64 (1.10.7+repack-4ubuntu2) ...¿
345 Setting up libgles1:amd64 (1.4.0-1) ...¿
346 Setting up libfftw3-quad3:amd64 (3.3.8-2ubuntu8) ...¿
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347 Setting up libtrilinos−zoltan−dev:amd64 (13.2.0−1ubuntu1) ...¿
348 Setting up opencl−c−headers (3.0~2022.01.04−1) ...¿
349 Setting up libmumps−headers−dev (5.4.1−2) ...¿
350 Setting up ksh93u+m (1.0.0~beta.2−1) ...¿
351 update−alternatives: using /bin/ksh93 to provide /bin/ksh (ksh) in auto mode¿
352 update−alternatives: warning: skip creation of /usr/share/man/man1/ksh.1.gz because associated file
  … /usr/share/man/man1/ksh93.1.gz (of link group ksh) doesn't exist¿
353 update−alternatives: warning: skip creation of /usr/share/man/man1/rksh.1.gz because associated file
  … /usr/share/man/man1/rksh93.1.gz (of link group ksh) doesn't exist¿
354 update−alternatives: using /usr/bin/shcomp93 to provide /usr/bin/shcomp (shcomp) in auto mode¿
355 update−alternatives: warning: skip creation of /usr/share/man/man1/shcomp.1.gz because associated file
  … /usr/share/man/man1/shcomp93.1.gz (of link group shcomp) doesn't exist¿
356 Setting up ksh (20211217) ...¿
357 Setting up libhdf5−openmpi−hl−100:amd64 (1.10.7+repack−4ubuntu2) ...¿
358 Setting up libc6−i386 (2.35−0ubuntu3) ...¿
359 Setting up xorg−sgml−doctools (1:1.11−1.1) ...¿
360 Setting up libtrilinos−aztecoo−dev:amd64 (13.2.0−1ubuntu1) ...¿
361 Setting up libopengl−dev:amd64 (1.4.0−1) ...¿
362 Setting up libhdf5−openmpi−cpp−103−1:amd64 (1.10.7+repack−4ubuntu2) ...¿
363 Setting up libhypre64m−2.22.1:amd64 (2.22.1−7) ...¿
364 Setting up valgrind (1:3.18.1−1ubuntu2) ...¿
365 Setting up valgrind−mpi (1:3.18.1−1ubuntu2) ...¿
366 Setting up libtrilinos−trilinosss−dev:amd64 (13.2.0−1ubuntu1) ...¿
367 Setting up libhdf5−openmpi−hl−cpp−100:amd64 (1.10.7+repack−4ubuntu2) ...¿
368 Setting up librbio2:amd64 (1:5.10.1+dfsg−4build1) ...¿
369 Setting up libhdf5−openmpi−hl−fortran−100:amd64 (1.10.7+repack−4ubuntu2) ...¿
370 Setting up libmumps64−dev:amd64 (5.4.1−2) ...¿
371 Setting up libpetsc3.15−dev−examples (3.15.5+dfsg1−1build2) ...¿
372 Setting up libmumps−dev:amd64 (5.4.1−2) ...¿
373 Setting up libpetsc64−real3.15:amd64 (3.15.5+dfsg1−1build2) ...¿
374 update−alternatives: using /usr/lib/x86_64−linux−gnu/libpetsc64_real.so.3.15.5 to provide
  … /usr/lib/x86_64−linux−gnu/libpetsc64.so.3.15 (libpetsc64.so.3.15) in auto mode¿
375 Setting up libsuitesparse−dev:amd64 (1:5.10.1+dfsg−4build1) ...¿
376 Setting up libfftw3−bin (3.3.8−2ubuntu8) ...¿
377 Setting up libtrilinos−ml−dev:amd64 (13.2.0−1ubuntu1) ...¿
378 Setting up opencl−clhpp−headers (3.0~2.0.15−1ubuntu1) ...¿
379 Setting up ocl−icd−opencl−dev:amd64 (2.2.14−3) ...¿
380 Setting up libhypre64m−dev:amd64 (2.22.1−7) ...¿
381 Setting up libhdf5−openmpi−dev (1.10.7+repack−4ubuntu2) ...¿
382 update−alternatives: using /usr/bin/h5pcc.openmpi to provide /usr/bin/h5pcc (h5pcc) in auto mode¿
383 update−alternatives: warning: skip creation of /usr/share/man/man1/h5pcc.1.gz because associated file
  … /usr/share/man/man1/h5pcc.openmpi.1.gz (of link group h5pcc) doesn't exist¿
384 update−alternatives: warning: skip creation of /usr/share/man/man1/h5pfc.1.gz because associated file
  … /usr/share/man/man1/h5pfc.openmpi.1.gz (of link group h5pcc) doesn't exist¿
385 update−alternatives: using /usr/lib/x86_64−linux−gnu/pkgconfig/hdf5−openmpi.pc to provide
  … /usr/lib/x86_64−linux−gnu/pkgconfig/hdf5.pc (hdf5.pc) in auto mode¿
386 update−alternatives: updating alternative /usr/bin/mpicc.openmpi because link group mpi has changed
  … slave links¿
387 update−alternatives: warning: skip creation of /usr/share/man/man1/mpiCC.1.gz because associated file
  … /usr/share/man/man1/mpiCC.openmpi.1.gz (of link group mpi) doesn't exist¿
388 update−alternatives: warning: skip creation of /usr/share/man/man1/mpic++.1.gz because associated file
  … /usr/share/man/man1/mpic++.openmpi.1.gz (of link group mpi) doesn't exist¿
389 update−alternatives: warning: skip creation of /usr/share/man/man1/mpicc.1.gz because associated file
  … /usr/share/man/man1/mpicc.openmpi.1.gz (of link group mpi) doesn't exist¿
390 update−alternatives: warning: skip creation of /usr/share/man/man1/mpicxx.1.gz because associated file
  … /usr/share/man/man1/mpicxx.openmpi.1.gz (of link group mpi) doesn't exist¿
391 update−alternatives: warning: skip creation of /usr/share/man/man1/mpif77.1.gz because associated file
  … /usr/share/man/man1/mpif77.openmpi.1.gz (of link group mpi) doesn't exist¿
392 update−alternatives: warning: skip creation of /usr/share/man/man1/mpif90.1.gz because associated file
  … /usr/share/man/man1/mpif90.openmpi.1.gz (of link group mpi) doesn't exist¿
393 update−alternatives: warning: skip creation of /usr/share/man/man1/mpifort.1.gz because associated
  … file /usr/share/man/man1/mpifort.openmpi.1.gz (of link group mpi) doesn't exist¿
394 update−alternatives: using /usr/lib/x86_64−linux−gnu/pkgconfig/hdf5−mpi.pc to provide
  … /usr/lib/x86_64−linux−gnu/pkgconfig/hdf5.pc (hdf5.pc) in auto mode¿
395 Setting up libfftw3−dev:amd64 (3.3.8−2ubuntu8) ...¿
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396 Setting up libhdf5–mpi–dev (1.10.7+repack–4ubuntu2) ...¿
397 Processing triggers for sgml–base (1.30) ...¿
398 Setting up x11proto–dev (2021.5–1) ...¿
399 Processing triggers for fontconfig (2.13.1–4.2ubuntu5) ...¿
400 Setting up libxau–dev:amd64 (1:1.0.9–1build5) ...¿
401 Processing triggers for libc–bin (2.35–0ubuntu3) ...¿
402 Processing triggers for man–db (2.10.2–1) ...¿
403 Setting up libxdmcp–dev:amd64 (1:1.1.3–0ubuntu5) ...¿
404 Setting up libxcb1–dev:amd64 (1.14–3ubuntu3) ...¿
405 Setting up libx11–dev:amd64 (2:1.7.5–1) ...¿
406 Setting up libglx–dev:amd64 (1.4.0–1) ...¿
407 Setting up libgl–dev:amd64 (1.4.0–1) ...¿
408 Setting up libegl–dev:amd64 (1.4.0–1) ...¿
409 Setting up libpetsc3.15–dev–common (3.15.5+dfsg1–1build2) ...¿
410 Setting up libpetsc64–real3.15–dev:amd64 (3.15.5+dfsg1–1build2) ...¿
411 update–alternatives: using /usr/lib/petscdir/petsc64–3.15/x86_64–linux–gnu–real to provide
  … /usr/lib/petsc64 (petsc64) in auto mode¿
412 update–alternatives: using /usr/lib/x86_64–linux–gnu/libpetsc64_real.so.3.15.5 to provide
  … /usr/lib/x86_64–linux–gnu/libpetsc64_real.so (libpetsc64_real.so) in auto mode¿
413 update–alternatives: using /usr/lib/petscdir/petsc64–3.15/x86_64–linux–gnu–real to provide
  … /usr/lib/petscdir/64–3.15 (petsc64–3.15) in auto mode¿
414 Setting up libpetsc–real3.15–dev:amd64 (3.15.5+dfsg1–1build2) ...¿
415 update–alternatives: error: no alternatives for petsc¿
416 update–alternatives: using /usr/lib/petscdir/petsc3.15/x86_64–linux–gnu–real to provide /usr/lib/petsc
  … (petsc) in auto mode¿
417 update–alternatives: using /usr/lib/x86_64–linux–gnu/libpetsc_real.so.3.15.5 to provide
  … /usr/lib/x86_64–linux–gnu/libpetsc_real.so (libpetsc_real.so) in auto mode¿
418 update–alternatives: using /usr/lib/petscdir/petsc3.15/x86_64–linux–gnu–real to provide
  … /usr/lib/petscdir/3.15 (petsc3.15) in auto mode¿
419 Setting up libgles–dev:amd64 (1.4.0–1) ...¿
420 Setting up libpetsc64–real–dev (3.15.5+dfsg1–1build2) ...¿
421 Setting up petsc64–dev (3.15.5+dfsg1–1build2) ...¿
422 Setting up libglvnd–dev:amd64 (1.4.0–1) ...¿
423 Setting up libgl1–mesa–dev:amd64 (22.0.1–1ubuntu2) ...¿
424
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