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# MB-System Copyright (C) 1993-2024 by

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MB-System was created by Caress and Chayes in 1992 at the Lamont-Doherty Earth Observatory of Columbia University Palisades, NY 10964

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The MB-System distribution includes some source code derived from packages that are distributed separately and have been authored by programmers other than the MB-System team. This includes:

- The Generic Sensor Format (GSF) library source located in mbsystem/src/gsf
  - The GSF package is maintained and distributed by Leidos Corporation under contract to the United States Naval Oceanographic Office. The current source code can downloaded from https://www.leidos.com/products/ocean-marine and is licensed using the LGPLv2.1 open source license.
- The SURF API (SAPI) library source located in mbsystem/src/surf
  The SAPI package was released under the GNU General Public License by
  Atlas Hydrographic in 2001; Atlas Hydrographic has since been acquired
  by Teledyne Marine Technologies Inc.
- The MR1PR library source located in mbsystem/src/mr1pr
  This package was primarily developed by Roger Davis of the Hawaii
  Mapping Research Group (HMRG) at the University of Hawaii. The
  MR1PR source code was released without restriction by HMRG in 2000.
  This code is licensed as part of MB-System under the GNU General Public
  License (version 3).
- The mb\_beaudoin() function found in mbsystem/src/mbio/mb\_angle.c This important function that calculates beam angles for multibeam sonars was contributed by Jonathan Beaudoin of CCOM/JHC University of New Hampshire and John Hughes Clarke of the Ocean Mapping Group, University of New Brunswick. This code is licensed as part of MB-System under the GNU General Public License (version 3).
- The mb\_mergesort() function found in mbsystem/src/mbio/mb\_esf.c This implementation of the merge sorting algorithm derives from the GNU-Darwin Distribution. This code is released under both the Apple Public Source License Version 1.1 and the BSD license, with original copyright by the Regents of the University of California.
- The Terrain Relative Navigation (TRN) algorithm and related software The TRN software included in MB-System derives from software developed by Steve Rock of Stanford University, many of Steve Rock's graduate students from 2000 through 2020, and Rob McEwen, Rich Henthorn, and Kent Headley of MBARI. The integration of TRN into MB-System was doen by Kent Headley and David Caress, and the relevant source files are found in mbsystem/src/mbtrn, mbsystem/src/mbtrnav, mbsystem/src/mbtrnframe, and mbsystem/src/mbtrnutils. This code is licensed as part of MB-System under the GNU General Public License (version 3).

## Caveat

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