```
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   Contributed by Richard Henderson.
   Mathematical constants.

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/* This file defines the GFORTRAN_PI_VAL and GFORTRAN_DPI_VAL
   macros.  The macros are used to initialize the following symbols:
   gfor_pi_sp, gfor_pi_dp, gfor_pi_qp, gfor_pi_xp, gfor_pi_tp.  */

#ifdef HAVE_FPI128
__gfor_pi_sp = {0x1.921fb6p+1f},
__gfor_pi_dp = {0x1.921fb54442d18p+1},
__gfor_pi_qp = {0x1.921fb54442d18469898cc51701b839a2p+1q},
__gfor_pi_xp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
__gfor_pi_tp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
#elif HAVE_FPI80
__gfor_pi_sp = {0x1.921fb6p+1f},
__gfor_pi_dp = {0x1.921fb54442d18p+1},
__gfor_pi_qp = {0x1.921fb54442d18469898cc51701b839a2p+1q},
__gfor_pi_xp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
__gfor_pi_tp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
#elif HAVE_FPI64
__gfor_pi_sp = {0x1.921fb6p+1f},
__gfor_pi_dp = {0x1.921fb54442d18p+1},
__gfor_pi_qp = {0x1.921fb54442d18469898cc51701b839a2p+1q},
__gfor_pi_xp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
__gfor_pi_tp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
#elif HAVE_FPI32
__gfor_pi_sp = {0x1.921fb6p+1f},
__gfor_pi_dp = {0x1.921fb54442d18p+1},
__gfor_pi_qp = {0x1.921fb54442d18469898cc51701b839a2p+1q},
__gfor_pi_xp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
__gfor_pi_tp = {0x1.921fb54442d18469898cc51701b839a2p+1x},
#endif

#ifdef HAVE_FHI128
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#elif HAVE_FHI80
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#elif HAVE_FHI64
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#elif HAVE_FHI32
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#endif

#ifdef HAVE_FHP128
__gfor_hp_sp = {0x1.6a09e6p-1f},
__gfor_hp_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hp_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hp_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hp_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHP80
__gfor_hp_sp = {0x1.6a09e6p-1f},
__gfor_hp_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hp_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hp_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hp_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHP64
__gfor_hp_sp = {0x1.6a09e6p-1f},
__gfor_hp_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hp_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hp_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hp_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHP32
__gfor_hp_sp = {0x1.6a09e6p-1f},
__gfor_hp_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hp_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hp_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hp_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHQ128
__gfor_hq_sp = {0x1.6a09e6p-1f},
__gfor_hq_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hq_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hq_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hq_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHQ80
__gfor_hq_sp = {0x1.6a09e6p-1f},
__gfor_hq_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hq_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hq_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hq_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHQ64
__gfor_hq_sp = {0x1.6a09e6p-1f},
__gfor_hq_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hq_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hq_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hq_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHQ32
__gfor_hq_sp = {0x1.6a09e6p-1f},
__gfor_hq_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hq_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hq_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hq_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHL128
__gfor_hl_sp = {0x1.6a09e6p-1f},
__gfor_hl_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hl_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hl_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hl_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHL80
__gfor_hl_sp = {0x1.6a09e6p-1f},
__gfor_hl_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hl_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hl_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hl_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHL64
__gfor_hl_sp = {0x1.6a09e6p-1f},
__gfor_hl_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hl_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hl_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hl_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHL32
__gfor_hl_sp = {0x1.6a09e6p-1f},
__gfor_hl_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hl_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hl_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hl_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHE128
__gfor_he_sp = {0x1.5bf0a8p+1f},
__gfor_he_dp = {0x1.5bf0a8b145769p+1},
__gfor_he_qp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1q},
__gfor_he_xp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
__gfor_he_tp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
#elif HAVE_FHE80
__gfor_he_sp = {0x1.5bf0a8p+1f},
__gfor_he_dp = {0x1.5bf0a8b145769p+1},
__gfor_he_qp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1q},
__gfor_he_xp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
__gfor_he_tp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
#elif HAVE_FHE64
__gfor_he_sp = {0x1.5bf0a8p+1f},
__gfor_he_dp = {0x1.5bf0a8b145769p+1},
__gfor_he_qp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1q},
__gfor_he_xp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
__gfor_he_tp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
#elif HAVE_FHE32
__gfor_he_sp = {0x1.5bf0a8p+1f},
__gfor_he_dp = {0x1.5bf0a8b145769p+1},
__gfor_he_qp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1q},
__gfor_he_xp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
__gfor_he_tp = {0x1.5bf0a8b145769535a3ca20c92d92d18p+1x},
#endif

#ifdef HAVE_FHN128
__gfor_hn_sp = {0x1.62e42fp-1f},
__gfor_hn_dp = {0x1.62e42fefa39efp-1},
__gfor_hn_qp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1q},
__gfor_hn_xp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
__gfor_hn_tp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
#elif HAVE_FHN80
__gfor_hn_sp = {0x1.62e42fp-1f},
__gfor_hn_dp = {0x1.62e42fefa39efp-1},
__gfor_hn_qp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1q},
__gfor_hn_xp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
__gfor_hn_tp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
#elif HAVE_FHN64
__gfor_hn_sp = {0x1.62e42fp-1f},
__gfor_hn_dp = {0x1.62e42fefa39efp-1},
__gfor_hn_qp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1q},
__gfor_hn_xp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
__gfor_hn_tp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
#elif HAVE_FHN32
__gfor_hn_sp = {0x1.62e42fp-1f},
__gfor_hn_dp = {0x1.62e42fefa39efp-1},
__gfor_hn_qp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1q},
__gfor_hn_xp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
__gfor_hn_tp = {0x1.62e42fefa39ef35793c7673007e5efb0p-1x},
#endif

#ifdef HAVE_FHR128
__gfor_hr_sp = {0x1.2b708cp-1f},
__gfor_hr_dp = {0x1.2b708872320e2p-1},
__gfor_hr_qp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1q},
__gfor_hr_xp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
__gfor_hr_tp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
#elif HAVE_FHR80
__gfor_hr_sp = {0x1.2b708cp-1f},
__gfor_hr_dp = {0x1.2b708872320e2p-1},
__gfor_hr_qp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1q},
__gfor_hr_xp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
__gfor_hr_tp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
#elif HAVE_FHR64
__gfor_hr_sp = {0x1.2b708cp-1f},
__gfor_hr_dp = {0x1.2b708872320e2p-1},
__gfor_hr_qp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1q},
__gfor_hr_xp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
__gfor_hr_tp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
#elif HAVE_FHR32
__gfor_hr_sp = {0x1.2b708cp-1f},
__gfor_hr_dp = {0x1.2b708872320e2p-1},
__gfor_hr_qp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1q},
__gfor_hr_xp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
__gfor_hr_tp = {0x1.2b708872320e2ec7fd7b9b97f6a0a0p-1x},
#endif

#ifdef HAVE_FHS128
__gfor_hs_sp = {0x1.77458fp-1f},
__gfor_hs_dp = {0x1.77458f632dcfcp-1},
__gfor_hs_qp = {0x1.77458f632dcfc9fb32e75334896a68p-1q},
__gfor_hs_xp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
__gfor_hs_tp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
#elif HAVE_FHS80
__gfor_hs_sp = {0x1.77458fp-1f},
__gfor_hs_dp = {0x1.77458f632dcfcp-1},
__gfor_hs_qp = {0x1.77458f632dcfc9fb32e75334896a68p-1q},
__gfor_hs_xp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
__gfor_hs_tp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
#elif HAVE_FHS64
__gfor_hs_sp = {0x1.77458fp-1f},
__gfor_hs_dp = {0x1.77458f632dcfcp-1},
__gfor_hs_qp = {0x1.77458f632dcfc9fb32e75334896a68p-1q},
__gfor_hs_xp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
__gfor_hs_tp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
#elif HAVE_FHS32
__gfor_hs_sp = {0x1.77458fp-1f},
__gfor_hs_dp = {0x1.77458f632dcfcp-1},
__gfor_hs_qp = {0x1.77458f632dcfc9fb32e75334896a68p-1q},
__gfor_hs_xp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
__gfor_hs_tp = {0x1.77458f632dcfc9fb32e75334896a68p-1x},
#endif

#ifdef HAVE_FHA128
__gfor_ha_sp = {0x1.9f323ep+0f},
__gfor_ha_dp = {0x1.9f323ecb98b5bp+0},
__gfor_ha_qp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0q},
__gfor_ha_xp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
__gfor_ha_tp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
#elif HAVE_FHA80
__gfor_ha_sp = {0x1.9f323ep+0f},
__gfor_ha_dp = {0x1.9f323ecb98b5bp+0},
__gfor_ha_qp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0q},
__gfor_ha_xp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
__gfor_ha_tp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
#elif HAVE_FHA64
__gfor_ha_sp = {0x1.9f323ep+0f},
__gfor_ha_dp = {0x1.9f323ecb98b5bp+0},
__gfor_ha_qp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0q},
__gfor_ha_xp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
__gfor_ha_tp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
#elif HAVE_FHA32
__gfor_ha_sp = {0x1.9f323ep+0f},
__gfor_ha_dp = {0x1.9f323ecb98b5bp+0},
__gfor_ha_qp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0q},
__gfor_ha_xp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
__gfor_ha_tp = {0x1.9f323ecb98b5b7401b1b6b6a2d9938d8p+0x},
#endif

#ifdef HAVE_FHB128
__gfor_hb_sp = {0x1.6a09e6p-1f},
__gfor_hb_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hb_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hb_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hb_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHB80
__gfor_hb_sp = {0x1.6a09e6p-1f},
__gfor_hb_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hb_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hb_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hb_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHB64
__gfor_hb_sp = {0x1.6a09e6p-1f},
__gfor_hb_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hb_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hb_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hb_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHB32
__gfor_hb_sp = {0x1.6a09e6p-1f},
__gfor_hb_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hb_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hb_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hb_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHC128
__gfor_hc_sp = {0x1.3c6ef3p+0f},
__gfor_hc_dp = {0x1.3c6ef372fe950p+0},
__gfor_hc_qp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0q},
__gfor_hc_xp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
__gfor_hc_tp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
#elif HAVE_FHC80
__gfor_hc_sp = {0x1.3c6ef3p+0f},
__gfor_hc_dp = {0x1.3c6ef372fe950p+0},
__gfor_hc_qp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0q},
__gfor_hc_xp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
__gfor_hc_tp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
#elif HAVE_FHC64
__gfor_hc_sp = {0x1.3c6ef3p+0f},
__gfor_hc_dp = {0x1.3c6ef372fe950p+0},
__gfor_hc_qp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0q},
__gfor_hc_xp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
__gfor_hc_tp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
#elif HAVE_FHC32
__gfor_hc_sp = {0x1.3c6ef3p+0f},
__gfor_hc_dp = {0x1.3c6ef372fe950p+0},
__gfor_hc_qp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0q},
__gfor_hc_xp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
__gfor_hc_tp = {0x1.3c6ef372fe950cf11a7d9bc8fdb3a7a0p+0x},
#endif

#ifdef HAVE_FHD128
__gfor_hd_sp = {0x1.6a09e6p-1f},
__gfor_hd_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hd_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hd_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hd_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHD80
__gfor_hd_sp = {0x1.6a09e6p-1f},
__gfor_hd_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hd_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hd_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hd_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHD64
__gfor_hd_sp = {0x1.6a09e6p-1f},
__gfor_hd_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hd_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hd_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hd_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHD32
__gfor_hd_sp = {0x1.6a09e6p-1f},
__gfor_hd_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hd_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hd_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hd_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHF128
__gfor_hf_sp = {0x1.6a09e6p-1f},
__gfor_hf_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hf_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hf_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hf_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHF80
__gfor_hf_sp = {0x1.6a09e6p-1f},
__gfor_hf_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hf_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hf_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hf_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHF64
__gfor_hf_sp = {0x1.6a09e6p-1f},
__gfor_hf_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hf_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hf_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hf_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHF32
__gfor_hf_sp = {0x1.6a09e6p-1f},
__gfor_hf_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hf_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hf_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hf_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHG128
__gfor_hg_sp = {0x1.6a09e6p-1f},
__gfor_hg_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hg_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hg_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hg_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHG80
__gfor_hg_sp = {0x1.6a09e6p-1f},
__gfor_hg_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hg_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hg_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hg_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHG64
__gfor_hg_sp = {0x1.6a09e6p-1f},
__gfor_hg_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hg_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hg_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hg_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHG32
__gfor_hg_sp = {0x1.6a09e6p-1f},
__gfor_hg_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hg_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hg_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hg_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHH128
__gfor_hh_sp = {0x1.6a09e6p-1f},
__gfor_hh_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hh_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hh_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hh_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHH80
__gfor_hh_sp = {0x1.6a09e6p-1f},
__gfor_hh_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hh_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hh_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hh_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHH64
__gfor_hh_sp = {0x1.6a09e6p-1f},
__gfor_hh_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hh_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hh_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hh_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHH32
__gfor_hh_sp = {0x1.6a09e6p-1f},
__gfor_hh_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hh_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hh_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hh_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHI128
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#elif HAVE_FHI80
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#elif HAVE_FHI64
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#elif HAVE_FHI32
__gfor_hi_sp = {0x1.3bd3ccp-1f},
__gfor_hi_dp = {0x1.3bd3cc9be45dep-1},
__gfor_hi_qp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1q},
__gfor_hi_xp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
__gfor_hi_tp = {0x1.3bd3cc9be45de5bf2f61eb45f4fb8a8p-1x},
#endif

#ifdef HAVE_FHJ128
__gfor_hj_sp = {0x1.6a09e6p-1f},
__gfor_hj_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hj_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hj_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hj_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHJ80
__gfor_hj_sp = {0x1.6a09e6p-1f},
__gfor_hj_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hj_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hj_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hj_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHJ64
__gfor_hj_sp = {0x1.6a09e6p-1f},
__gfor_hj_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hj_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hj_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hj_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHJ32
__gfor_hj_sp = {0x1.6a09e6p-1f},
__gfor_hj_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hj_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hj_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hj_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#endif

#ifdef HAVE_FHK128
__gfor_hk_sp = {0x1.6a09e6p-1f},
__gfor_hk_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hk_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hk_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hk_tp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
#elif HAVE_FHK80
__gfor_hk_sp = {0x1.6a09e6p-1f},
__gfor_hk_dp = {0x1.6a09e667f3bcdp-1},
__gfor_hk_qp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1q},
__gfor_hk_xp = {0x1.6a09e667f3bcd6a7bb2cb7a302a58a8p-1x},
__gfor_hk_tp =
```

```
label define H1340082X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 YES"
         2 "2 NO" ;

label define H1340083X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         995 "995 NO SPOUSE IN HOUSE"
         996 "996 MARITAL STATUS UNKNOWN"
         997 "997 LESS THAN 16 YRS OLD" ;

label define H1340084X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 SPOUSE IN THE HOUSE"
         2 "2 NOT MARRIED/NO SPOUSE"
         3 "3 UNDER 16 INAPPLICABLE" ;

label define H1340085X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 NO DIFFICULTY"
         2 "2 SOME DIFFICULTY"
         3 "3 A LOT OF DIFFICULTY"
         4 "4 UNABLE TO DO" ;

label define H1340086X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 NO DIFFICULTY"
         2 "2 SOME DIFFICULTY"
         3 "3 A LOT OF DIFFICULTY"
         4 "4 COMPLETELY UNABLE TO DO IT"
         5 "5 COMPLETELY UNABLE TO WALK" ;

label define H1340087X
         -1 "-1 INAPPLICABLE"
         1 "1 YES"
         2 "2 NO" ;

label define H1340088X
         -1 "-1 INAPPLICABLE"
         1 "1 YES"
         2 "2 NO" ;

label define H1340089X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 YES"
         2 "2 NO" ;

label define H1340090X
         -1 "-1 INAPPLICABLE"
         0 "0.000000 WEIGHT" ;

label define H1340091X
         -1 "-1 INAPPLICABLE"
         0 "0.000000 WEIGHT" ;

label define H1340092X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 NO DIFFICULTY"
         2 "2 SOME DIFFICULTY"
         3 "3 A LOT OF DIFFICULTY"
         4 "4 UNABLE TO DO" ;

label define H1340093X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 YES"
         2 "2 NO" ;

label define H1340094X
         -1 "-1 INAPPLICABLE"
         -7 "-7 REFUSED"
         -8 "-8 DK"
         -9 "-9 NOT ASCERTAINED"
         1 "1 YES"
         2 "2 NO" ;

* ASSOCIATE VARIABLES WITH VALUE LABEL DEFINITIONS;
label value ACTDTY13 H1340001X;
label value ACTLIM13 H1340002X;
label value ADLHLP13 H1340003X;
label value AGE13X H1340004X;
label value AIDHLP13 H1340005X;
label value BEGRFD13 H1340006X;
label value BEGRFM13 H1340007X;
label value BEGRFY13 H1340008X;
label value BENDIF13 H1340009X;
label value COGLIM13 H1340010X;
label value DOBMM H1340011X;
label value DOBYY H1340012X;
label value EDUCYR H1340013X;
label value EMPST13 H1340014X;
label value ENDRFD13 H1340015X;
label value ENDRFM13 H1340016X;
label value ENDRFY13 H1340017X;
label value FAMSIZ13 H1340018X;
label value FNGRDF13 H1340019X;
label value FTSTD13X H1340020X;
label value HELD13X H1340021X;
label value HIDEG H1340022X;
label value HISPANX H1340023X;
label value HISPCAT H1340024X;
label value HONRDC13 H1340025X;
label value HOUR13 H1340026X;
label value HPRIDK13 H1340027X;
label value HPRIEU13 H1340028X;
label value HPRING13 H1340029X;
label value HPRIOG13 H1340030X;
label value HPRIS13 H1340031X;
label value HPRIV13 H1340032X;
label value HRWAG13X H1340033X;
label value HRWAY13 H1340034X;
label value HSELIM13 H1340035X;
label value IADLHP13 H1340036X;
label value INSCOP13 H1340037X;
label value INSRD13X H1340038X;
label value KEYNESS H1340039X;
label value LFTDIF13 H1340040X;
label value MARRY13X H1340041X;
label value MCAID13 H1340042X;
label value MCAID13X H1340043X;
label value MCARE13 H1340044X;
label value MCARE13X H1340045X;
label value MILDIF13 H1340046X;
label value MNHLTH13 H1340047X;
label value MSA13 H1340048X;
label value NUMEMP13 H1340049X;
label value OFFER13X H1340050X;
label value OTPUBA13 H1340051X;
label value OTPUBB13 H1340052X;
label value PANEL H1340053X;
label value PRIDK13 H1340054X;
label value PRIEU13 H1340055X;
label value PRING13 H1340056X;
label value PRIOG13 H1340057X;
label value PRIOUT13 H1340058X;
label value PRIS13 H1340059X;
label value PRIV13 H1340060X;
label value PROXY13 H1340061X;
label value PSTAT13 H1340062X;
label value PUB13X H1340063X;
label value RACEAX H1340064X;
label value RACEBX H1340065X;
label value RACETHNX H1340066X;
label value RACEWX H1340067X;
label value RACEX H1340068X;
label value RCHDIF13 H1340069X;
label value RDRESP13 H1340070X;
label value REGION13 H1340071X;
label value RFREL13X H1340072X;
label value RTHLTH13 H1340073X;
label value RUCLAS13 H1340074X;
label value RUENDD13 H1340075X;
label value RUENDM13 H1340076X;
label value RUENDY13 H1340077X;
label value RUSIZE13 H1340078X;
label value SCHLIM13 H1340079X;
label value SELFCM13 H1340080X;
label value SEX H1340081X;
label value SOCLIM13 H1340082X;
label value SPOUID13 H1340083X;
label value SPOUIN13 H1340084X;
label value STNDIF13 H1340085X;
label value STPDIF13 H1340086X;
label value STPRG13 H1340087X;
label value TRINW13X H1340088X;
label value UNABLE13 H1340089X;
label value WGTRU13 H1340090X;
label value WGTSP13 H1340091X;
label value WLKDIF13 H1340092X;
label value WLKLIM13 H1340093X;
label value WRKLIM13 H1340094X;

*DISPLAY A DESCRIPTION OF STATA FILE;
describe;

*LIST FIRST 20 OBSERVATIONS IN THE FILE;
list in 1/20;

save H134, replace;

#delimit cr

* data file is stored in H134.dta
* log  file is stored in H134.log

log close

/*****************************************************************************************
 NOTES:

 1. This program has been tested on Stata Version 10 (for Windows).

 2. This program will create a permanent Stata dataset.  All additional analyses
    can be run using this dataset.  In addition to the dataset, this program creates
    a log file named H134.LOG and a data file named H134.DTA.  If these files (H134.DTA and H134.LOG)
    already exist in the working directory, they will be replaced when this program is executed.

 3. If the program ends prematurely, the log file will remain open.  Before running this
    program again, the user should enter the following Stata command: log close

 4. The cd command assigns C:\MEPS\DATA as the working directory and location of the input
    ASCII and output .DTA and .LOG files and can be modified by the user as necessary.

 5. Stata commands end with a carriage return by default. The command
    #delimit ;
    temporarily changes the command ending delimiter from a carriage return to a semicolon.

 6. The infix command assumes that the input variables are numeric unless the variable name
    is prefaced by str.  For example, DUPERSID is the a string (or character) variable.

*****************************************************************************************/
```