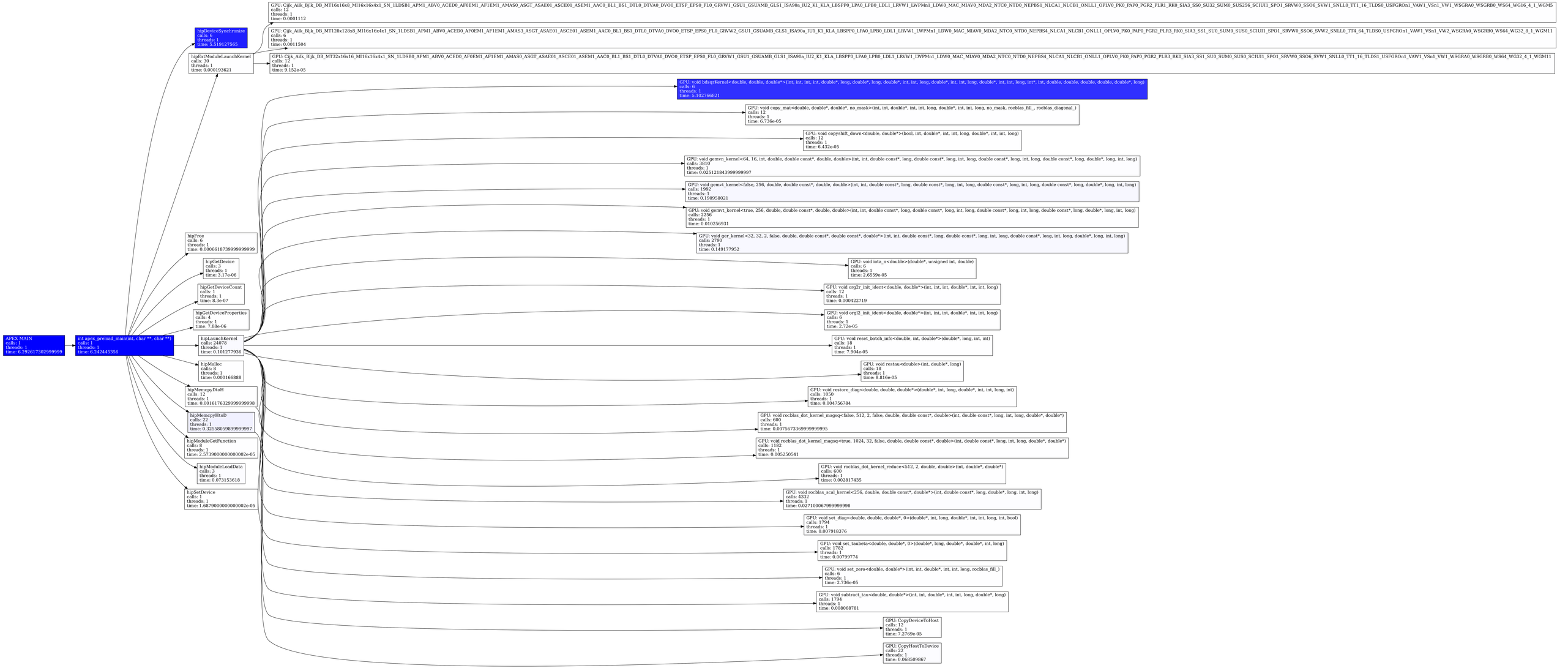
APEX MAIN
calls: 1
threads: 1
time: 6.292617302999999
int apex_preload_main(int, char **, char **)
calls: 1
threads: 1
time: 6.242445356
hipDeviceSynchronize
calls: 6
threads: 1
time: 5.519127565
hipExtModuleLaunchKernel
calls: 30
threads: 1
time: 0.000193621
GPU: Cijk_Ailk_Bljk_DB_MT16x16x8_MI16x16x4x1_SN_1LDSB1_APM1_ABV0_ACED0_AF0EM1_AF1EM1_AMAS0_ASGT_ASAE01_ASCE01_ASEM1_AAC0_BL1_BS1_DTL0_DTVA0_DVO0_ETSP_EPS0_FL0_GRVW1_GSU1_GSUAMB_GLS1_ISA90a_IU2_K1_KLA_LBSPP0_LPA0_LPB0_LDL1_LRVW1_LWPMn1_LDW0_MAC_MIAV0_MDA2_NTC0_NTD0_NEPBS1_NLCA1_NLCB1_ONLL1_OPLV0_PK0_PAP0_PGR2_PLR1_RK0_SIA3_SS0_SU32_SUM0_SUS256_SCIUI1_SPO1_SRVW0_SSO6_SVW1_SNLL0_TT1_16_TLDS0_USFGROn1_VAW1_VSn1_VW1_WSGRA0_WSGRB0_WS64_WG16_4_1_WGM5
calls: 12
threads: 1
time: 0.0001112
GPU: Cijk_Ailk_Bljk_DB_MT128x128x8_MI16x16x4x1_SN_1LDSB1_APM1_ABV0_ACED0_AF0EM1_AF1EM1_AMAS3_ASGT_ASAE01_ASCE01_ASEM1_AAC0_BL1_BS1_DTL0_DTVA0_DVO0_ETSP_EPS0_FL0_GRVW2_GSU1_GSUAMB_GLS1_ISA90a_IU1_K1_KLA_LBSPP0_LPA0_LPB0_LDL1_LRVW1_LWPMn1_LDW0_MAC_MIAV0_MDA2_NTC0_NTD0_NEPBS4_NLCA1_NLCB1_ONLL1_OPLV0_PK0_PAP0_PGR2_PLR3_RK0_SIA3_SS1_SU0_SUM0_SUS0_SCIUI1_SPO1_SRVW0_SSO6_SVW2_SNLL0_TT4_64_TLDS0_USFGROn1_VAW1_VSn1_VW2_WSGRA0_WSGRB0_WS64_WG32_8_1_WGM11
calls: 6
threads: 1
time: 0.0011504
GPU: Cijk_Ailk_Bljk_DB_MT32x16x16_MI16x16x4x1_SN_1LDSB0_APM1_ABV0_ACED0_AF0EM1_AF1EM1_AMAS0_ASGT_ASAE01_ASCE01_ASEM1_AAC0_BL1_BS1_DTL0_DTVA0_DVO0_ETSP_EPS0_FL0_GRVW1_GSU1_GSUAMB_GLS1_ISA90a_IU2_K1_KLA_LBSPP0_LPA0_LPB0_LDL1_LRVW1_LWPMn1_LDW0_MAC_MIAV0_MDA2_NTC0_NTD0_NEPBS4_NLCA1_NLCB1_ONLL1_OPLV0_PK0_PAP0_PGR2_PLR3_RK0_SIA3_SS1_SU0_SUM0_SUS0_SCIUI1_SPO1_SRVW0_SSO6_SVW1_SNLL0_TT1_16_TLDS1_USFGROn1_VAW1_VSn1_VW1_WSGRA0_WSGRB0_WS64_WG32_4_1_WGM11
calls: 12
threads: 1
time: 9.152e-05
GPU: void bdsqrKernel<double, double, double*>(int, int, int, int, double*, long, double*, long, double*, int, int, long, double*, int, int, long, double*, int, int, long, int*, int, double, double, double, double, double*, long)
calls: 6
threads: 1
time: 5.102766821
GPU: void copy_mat<double, double*, double*, no_mask>(int, int, double*, int, int, long, double*, int, int, long, no_mask, rocblas_fill_, rocblas_diagonal_)
calls: 12
threads: 1
time: 6.736e-05
GPU: void copyshift_down<double, double*>(bool, int, double*, int, int, long, double*, int, int, long)
calls: 12
threads: 1
time: 6.432e-05
GPU: void gemvn_kernel<64, 16, int, double, double const*, double, double>(int, int, double const*, long, double const*, long, int, long, double const*, long, int, long, double const*, long, double*, long, int, long)
calls: 3810
threads: 1
time: 0.025121843999999997
GPU: void gemvt_kernel<false, 256, double, double const*, double, double>(int, int, double const*, long, double const*, long, int, long, double const*, long, int, long, double const*, long, double*, long, int, long)
calls: 1992
threads: 1
time: 0.190958021
GPU: void gemvt_kernel<true, 256, double, double const*, double, double>(int, int, double const*, long, double const*, long, int, long, double const*, long, int, long, double const*, long, double*, long, int, long)
calls: 2256
threads: 1
time: 0.010256931
GPU: void ger_kernel<32, 32, 2, false, double, double const*, double const*, double*>(int, int, double const*, long, double const*, long, int, long, double const*, long, int, long, double*, long, int, long)
calls: 2790
threads: 1
time: 0.149177952
hipFree
calls: 6
threads: 1
time: 0.000661873999999999
hipGetDevice
calls: 3
threads: 1
time: 3.17e-06
hipGetDeviceCount
calls: 1
threads: 1
time: 8.3e-07
hipGetDeviceProperties
calls: 4
threads: 1
time: 7.88e-06
hipLaunchKernel
calls: 24078
threads: 1
time: 0.101277936
hipMalloc
calls: 8
threads: 1
time: 0.000166888
hipMemcpyDtoH
calls: 12
threads: 1
time: 0.001617632999999998
hipMemcpyHtoD
calls: 22
threads: 1
time: 0.32558059899999997
hipModuleGetFunction
calls: 8
threads: 1
time: 2.5739000000000002e-05
hipModuleLoadData
calls: 3
threads: 1
time: 0.073153618
hipSetDevice
calls: 1
threads: 1
time: 1.6879000000000002e-05
GPU: void iota_n<double>(double*, unsigned int, double)
calls: 6
threads: 1
time: 2.6559e-05
GPU: void org2r_init_ident<double, double*>(int, int, int, double*, int, int, long)
calls: 12
threads: 1
time: 0.000422719
GPU: void orgl2_init_ident<double, double*>(int, int, int, double*, int, int, long)
calls: 6
threads: 1
time: 2.72e-05
GPU: void reset_batch_info<double, int, double*>(double*, long, int, int)
calls: 18
threads: 1
time: 7.904e-05
GPU: void restau<double>(int, double*, long)
calls: 18
threads: 1
time: 8.816e-05
GPU: void restore_diag<double, double, double*>(double*, int, long, double*, int, int, long, int)
calls: 1050
threads: 1
time: 0.004756784
GPU: void rocblas_dot_kernel_magsq<false, 512, 2, false, double, double const*, double>(int, double const*, long, int, long, double*, double*)
calls: 600
threads: 1
time: 0.007567336999999995
GPU: void rocblas_dot_kernel_magsq<true, 1024, 32, false, double, double const*, double>(int, double const*, long, int, long, double*, double*)
calls: 1182
threads: 1
time: 0.005250541
GPU: void rocblas_dot_kernel_reduce<512, 2, double, double>(int, double*, double*)
calls: 600
threads: 1
time: 0.002817435
GPU: void rocblas_scal_kernel<256, double, double const*, double*>(int, double const*, long, double*, long, int, long)
calls: 4332
threads: 1
time: 0.027100067999999998
GPU: void set_diag<double, double, double*, 0>(double*, int, long, double*, int, int, long, int, bool)
calls: 1794
threads: 1
time: 0.007918376
GPU: void set_taubeta<double, double*, 0>(double*, long, double*, double*, int, long)
calls: 1782
threads: 1
time: 0.00799774
GPU: void set_zero<double, double*>(int, int, double*, int, int, long, rocblas_fill_)
calls: 6
threads: 1
time: 2.736e-05
GPU: void subtract_tau<double, double*>(int, int, double*, int, int, long, double*, long)
calls: 1794
threads: 1
time: 0.008068781
GPU: CopyDeviceToHost
calls: 12
threads: 1
time: 7.2769e-05
GPU: CopyHostToDevice
calls: 22
threads: 1
time: 0.068509867