This is a UML class inheritance diagram for the `fgsl` class with the following relationships:

- `fgsl::fgsl_multimin_fdfminimizer_type` ← fgsl_multimin_fdfminimizer_vector_bfgs2, fgsl_multimin_fdfminimizer_conjugate_pr, fgsl_multimin_fdfminimizer_conjugate_fr, fgsl_multimin_fdfminimizer_vector_bfgs, fgsl_multimin_fdfminimizer_steepest_descent

- `fgsl::fgsl_multiroot_fsolver_type` ← fgsl_multiroot_fsolver_broyden, fgsl_multiroot_fsolver_hybrid, fgsl_multiroot_fsolver_dnewton, fgsl_multiroot_fsolver_hybrids

- `fgsl::fgsl_multifit_fdfsolver_type` ← fgsl_multifit_fdfsolver_lmder, fgsl_multifit_fdfsolver_lmsder

- `fgsl::fgsl_multimin_fminimizer_type` ← fgsl_multimin_fminimizer_nmsimplex2, fgsl_multimin_fminimizer_nmsimplex, fgsl_multimin_fminimizer_nmsimplex2rand

- `fgsl::fgsl_multiroot_fdfsolver_type` ← fgsl_multiroot_fdfsolver_newton, fgsl_multiroot_fdfsolver_hybridsj, fgsl_multiroot_fdfsolver_hybridj, fgsl_multiroot_fdfsolver_gnewton

- `fgsl::fgsl_odeiv_step_type` ← fgsl_odeiv_step_bsimp, fgsl_odeiv_step_rk8pd, fgsl_odeiv_step_gear1, fgsl_odeiv_step_rkf45, fgsl_odeiv_step_gear2, fgsl_odeiv_step_rk4imp, fgsl_odeiv_step_rk2imp, fgsl_odeiv_step_rk2, fgsl_odeiv_step_rkck, fgsl_odeiv_step_rk4, ...

- `fgsl::fgsl_multifit_robust_type` ← fgsl_multifit_robust_welsch, fgsl_multifit_robust_fair, fgsl_multifit_robust_bisquare, fgsl_multifit_robust_huber, fgsl_multifit_robust_default, fgsl_multifit_robust_ols, fgsl_multifit_robust_cauchy

- `fgsl::fgsl_mode_t` ← fgsl_prec_single, fgsl_prec_double, fgsl_prec_approx

- `fgsl::fgsl_min_fminimizer_type` ← fgsl_min_fminimizer_brent, fgsl_min_fminimizer_goldensection, fgsl_min_fminimizer_quad_golden

- `fgsl::fgsl_odeiv2_step_type` ← fgsl_odeiv2_step_bsimp, fgsl_odeiv2_step_rkck, fgsl_odeiv2_step_msbdf, fgsl_odeiv2_step_rk4imp, fgsl_odeiv2_step_rkf45, fgsl_odeiv2_step_rk2imp, fgsl_odeiv2_step_msadams, fgsl_odeiv2_step_rk8pd, fgsl_odeiv2_step_rk2, fgsl_odeiv2_step_rk1imp, ...

- `fgsl::fgsl_interp_type` ← fgsl_interp_akima_periodic, fgsl_interp_cspline_periodic, fgsl_interp_cspline, fgsl_interp_linear, fgsl_interp_polynomial, fgsl_interp_akima

- `fgsl::fgsl_root_fsolver_type` ← fgsl_root_fsolver_brent, fgsl_root_fsolver_falsepos, fgsl_root_fsolver_bisection

- `fgsl::fgsl_wavelet_type` ← fgsl_wavelet_bspline_centered, fgsl_wavelet_daubechies_centered, fgsl_wavelet_haar_centered, fgsl_wavelet_haar, fgsl_wavelet_daubechies, fgsl_wavelet_bspline

- `fgsl::fgsl_root_fdfsolver_type` ← fgsl_root_fdfsolver_secant, fgsl_root_fdfsolver_steffenson, fgsl_root_fdfsolver_newton

- `fgsl::fgsl_rng_type` ← fgsl_rng_random32_libc5, fgsl_rng_fishman20, fgsl_rng_taus113, fgsl_rng_random8_glibc2, fgsl_rng_rand, fgsl_rng_coveyou, fgsl_rng_ranlux389, fgsl_rng_ranf, fgsl_rng_random64_glibc2, fgsl_rng_random128_bsd, ...

- `fgsl::fgsl_qrng_type` ← fgsl_qrng_niederreiter_2, fgsl_qrng_sobol, fgsl_qrng_reversehalton, fgsl_qrng_halton