

General GIMPLE API list

```
enum gimple_code gimple_code (gimple g)
basic_block gimple_bb (gimple g)
tree gimple_block (gimple g)
tree gimple_expr_type (gimple stmt)
enum tree_code gimple_expr_code (gimple stmt)
unsigned gimple_num_ops (gimple g)
tree gimple_op (gimple g, unsigned i)
```

APIs for GIMPLE statement iteration

```
gimple_stmt_iterator gsi_start (gimple seq seq)
gimple_stmt_iterator gsi_start_bb (basic_block bb)
gimple_stmt_iterator gsi_last (gimple seq seq)
gimple_stmt_iterator gsi_last_bb (basic_block bb)
bool gsi_end_p (gimple_stmt_iterator i)
bool gsi_one_before_end_p (gimple_stmt_iterator i)
void gsi_next (gimple_stmt_iterator *i)
void gsi_prev (gimple_stmt_iterator *i)
gimple gsi_stmt (gimple_stmt_iterator i)
```

APIs for GIMPLE assign statement

```
bool is_gimple_assign (gimple g)
enum tree_code gimple_assign_rhs_code (gimple g)
enum gimple_rhs_class gimple_assign_rhs_class (gimple g)
tree gimple_assign_lhs (gimple g)
tree gimple_assign_rhs1 (gimple g)
tree gimple_assign_rhs2 (gimple g)
```

APIs for GIMPLE call statement

```
bool is_gimple_call (gimple g)
tree gimple_call_lhs (gimple g)
tree gimple_call_fn (gimple g)
tree gimple_call_fndecl (gimple g)
tree gimple_call_return_type (gimple g)
unsigned gimple_call_num_args (gimple g)
tree gimple_call_arg (gimple g, unsigned index)
```

APIs for GIMPLE conditional statement

```
enum tree_code gimple_cond_code (gimple g)
tree gimple_cond_lhs (gimple g)
tree gimple_cond_rhs (gimple g)
tree gimple_cond_true_label (gimple g)
tree gimple_cond_false_label (gimple g)
```