

May 06, 18 11:32

analysis.h

Page 1/1

```
void findloops();  
void calclivevars();  
void calcdeadvars();
```

May 06, 18 11:32

opts.h

Page 1/1

```
void unreachablecodeelim();
void remvbranchchains();
void reversebranches();
void deadasgelim();
void regalloc(int *);
void codemotion(int *);
void filldelayslots();
void readinrules();
void applypeeprules(int *);
void localconstprop(int *);
void localcopyprop(int *);
void localcse(int *);
void cseinblk(struct bblk *, int *);
```

May 06, 18 11:32

chains.c

Page 1/1

```
#include <stdlib.h>
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "opts.h"
#include "flow.h"

/*
 * remvbranchchains - remove branch chains
 */
void remvbranchchains()
{
}
```

May 06, 18 11:32

constprop.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "io.h"
#include "misc.h"
#include "vars.h"

/*
 * localconstprop - perform constant propagation
 */
void localconstprop(int *changes)
{
}
```

May 06, 18 11:32

copyprop.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "vars.h"

/*
 * localcopyprop - perform copy propagation
 */
void localcopyprop(int *changes)
{
}
```

May 06, 18 11:32

cse.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "vars.h"

/*
 * cseinblk - perform local common subexpression elimination in a block
 */
void cseinblk(struct bblk *cblk, int *changes)
{
}

/*
 * localcse - perform local common subexpression elimination
 */
void localcse(int *changes)
{
    struct bblk *cblk;
    extern struct bblk *top;

    for (cblk = top; cblk; cblk = cblk->down)
        cseinblk(cblk, changes);
}
```

May 06, 18 11:32

deadasgs.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "vars.h"
#include "analysis.h"
#include "opts.h"

/*
 * deadasgelim - perform dead assignment elimination
 */
void deadasgelim()
{
}
```

May 06, 18 11:32

fillslots.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "opts.h"

/*
 * filldelayslots - fill the delay slots of the transfers of control in a
 *                  function
 */
void filldelayslots()
{
}
```


May 06, 18 11:32

livedeadvars.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "vars.h"
#include "analysis.h"
#include "opts.h"

/*
 * calclivevars - calculate live variable information
 */
void calclivevars()
{
}

/*
 * calcdeadvars - calculate dead variable information
 */
void calcdeadvars()
{
}
```

May 06, 18 11:32

loops.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "analysis.h"
#include "vect.h"

struct loopnode *loops;    /* head of linked list of loops */

/*
 * findloops - locate loops in the program and build the loop data structure
 */
void findloops()
{
}
```

May 06, 18 11:32

peephole.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "vars.h"
#include "opts.h"

extern int numpeeprules;

/*
 * readinrules - read in the peephole rules from the rules file
 */
void readinrules()
{
}

/*
 * applypeeprules - apply peephole rules to the function
 */
void applypeeprules(int *changes)
{
}
```

May 06, 18 11:32

regalloc.c

Page 1/1

```
#include <stdio.h>
#include <strings.h>
#include "opt.h"
#include "misc.h"
#include "vars.h"
#include "opts.h"

/*
 * regalloc - perform register allocation
 */
void regalloc(int *changes)
{
}
```

May 06, 18 11:32

reverse.c

Page 1/1

```
#include <stdio.h>
#include "opt.h"
#include "misc.h"
#include "opts.h"

/*
 * reversebranches - avoid jumps by reversing branches
 */
void reversebranches()
{
}
```

May 06, 18 11:47

Makefile

Page 1/1

```

CC = gcc
DIR = /home/faculty/whalley/cop6622proj/lib
DIROBJ = /home/faculty/whalley/cop6622proj/obj
CFLAGS = -g -I$(DIR) -I. -c -Wall
LFLAGS = -g
OBJECTS = chains.o constprop.o copyprop.o cse.o deadasgs.o fillslots.o flow.o i
o.o livedeadvars.o loops.o misc.o motion.o opt.o peephole.o regalloc.o reverse.o
unreachable.o vars.o vect.o

opt: $(OBJECTS)
$(CC) $(LFLAGS) -o opt $(OBJECTS)

chains.o: chains.c $(DIR)/misc.h $(DIR)/opt.h opts.h $(DIR)/vect.h
$(CC) $(CFLAGS) chains.c

constprop.o: constprop.c $(DIR)/io.h $(DIR)/misc.h $(DIR)/opt.h $(DIR)/vars.h
$(CC) $(CFLAGS) constprop.c

copyprop.o: copyprop.c $(DIR)/misc.h $(DIR)/opt.h $(DIR)/vars.h
$(CC) $(CFLAGS) copyprop.c

deadasgs.o: deadasgs.c $(DIR)/opt.h $(DIR)/vars.h analysis.h opts.h
$(CC) $(CFLAGS) deadasgs.c

fillslots.o: fillslots.c $(DIR)/opt.h opts.h $(DIR)/misc.h
$(CC) $(CFLAGS) fillslots.c

flow.o: $(DIR)/flow.c $(DIR)/flow.h $(DIR)/opt.h
$(CC) $(CFLAGS) $(DIR)/flow.c

io.o: $(DIR)/io.c $(DIR)/io.h analysis.h $(DIR)/misc.h $(DIR)/opt.h $(DIR)/vars.h
$(CC) $(CFLAGS) $(DIR)/io.c

livedeadvars.o: livedeadvars.c analysis.h $(DIR)/misc.h $(DIR)/opt.h $(DIR)/vars.h
opts.h
$(CC) $(CFLAGS) livedeadvars.c

cse.o: cse.c $(DIR)/vars.h $(DIR)/misc.h $(DIR)/opt.h
$(CC) $(CFLAGS) cse.c

loops.o: loops.c analysis.h $(DIR)/misc.h $(DIR)/opt.h
$(CC) $(CFLAGS) loops.c

misc.o: $(DIR)/misc.c $(DIR)/misc.h $(DIR)/opt.h $(DIR)/vars.h
$(CC) $(CFLAGS) $(DIR)/misc.c

opt.o: $(DIR)/opt.c $(DIR)/opt.h
$(CC) $(CFLAGS) $(DIR)/opt.c

peephole.o: peephole.c $(DIR)/misc.h $(DIR)/vars.h $(DIR)/opt.h
$(CC) $(CFLAGS) peephole.c

regalloc.o: regalloc.c $(DIR)/opt.h opts.h $(DIR)/misc.h $(DIR)/vars.h
$(CC) $(CFLAGS) regalloc.c

reverse.o: reverse.c $(DIR)/opt.h opts.h $(DIR)/misc.h
$(CC) $(CFLAGS) reverse.c

vars.o: $(DIR)/vars.c $(DIR)/vars.h $(DIR)/opt.h
$(CC) $(CFLAGS) $(DIR)/vars.c

vect.o: $(DIR)/vect.c $(DIR)/vect.h $(DIR)/opt.h
$(CC) $(CFLAGS) $(DIR)/vect.c

```