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./tests/basic_main.c Fri Mar 07 15:08:29 2014 1
```

```
int main(void)
   int x = 5;
int r = 10;
for (int i = 0; i < 42*x; i++) {
   int y = 5;
   r += y;
}</pre>
return 0;
};
```

```
basic_main.ll
                             Fri Mar 07 14:49:32 2014
; ModuleID = 'basic_main.bc' target datalayout = "e-p:64:64:64-i1:8:8-i8:8:i16:16:16-i32:32:32-i64:64:64-f32:32:32-f64:64:64-v64:64:64-v128:128:128-a0:0:64-s0:64
:64-f80:128:128-n8:16:32:64-S128"
target triple = "x86_64-unknown-linux-gnu"
; Function Attrs: nounwind uwtable
define i32 @main() #0 {
entry:
 br label %for.cond
for.cond:
                                                  ; preds = %for.inc, %entry
 %r.0 = phi i32 [ 10, %entry ], [ %add, %for.inc ]
  %i.0 = phi i32 [ 0, %entry ], [ %inc, %for.inc ]
 %mul = mul nsw i32 42, 5
 %cmp = icmp slt i32 %i.0, %mul
 br il %cmp, label %for.body, label %for.end
                                                  ; preds = %for.cond
  %add = add nsw i32 %r.0, 5
 br label %for.inc
                                                 ; preds = %for.body
 %inc = add nsw i32 %i.0, 1
 br label %for.cond
for.end:
                                                  ; preds = %for.cond
 ret i32 0
```

attributes #0 = { nounwind uwtable "less-precise-fpmad"="false" "no-frame-pointer-elim"="true" "no-frame-pointer-elim-non-leaf" "no-in fs-fp-math"="false" "no-nans-fp-math"="false" "stack-protector-buffer-size"="8" "unsafe-fp-math"="false" "use-soft-float"="false" }

!llvm.ident = !{!0}

!0 = metadata !{metadata !"clang version 3.4 (tags/RELEASE\_34/final)"}

```
; ModuleID = 'basic_main-opt.bc'
target datalayout = "e-p:64:64:64-i1:8:8-i8:8-i16:16:16-i32:32:32-i64:64:64-f32:32:32-f64:64:64-v64:64-v64:64-v128:128-a0:0:64-s0:64
:64-f80:128:128-n8:16:32:64-S128"
target triple = "x86_64-unknown-linux-gnu"
; Function Attrs: nounwind uwtable
define i32 @main() #0 {
entry:
  %mul = mul nsw i32 42, 5
  br label %for.cond
                                                     ; preds = %for.inc, %entry
for.cond:
 %r.0 = phi i32 [ 10, %entry ], [ %add, %for.inc ] %i.0 = phi i32 [ 0, %entry ], [ %inc, %for.inc ] %cmp = icmp slt i32 %i.0, %mul
 br il %cmp, label %for.body, label %for.end
                                                    ; preds = %for.cond
  %add = add nsw i32 %r.0, 5
  br label %for.inc
                                                     ; preds = %for.body
  %inc = add nsw i32 %i.0, 1
 br label %for.cond
for.end:
                                                     ; preds = %for.cond
 ret i32 0
attributes #0 = { nounwind uwtable "less-precise-fpmad"="false" "no-frame-pointer-elim"="true" "no-frame-pointer-elim-non-leaf" "no-in
fs-fp-math"="false" "no-nans-fp-math"="false" "stack-protector-buffer-size"="8" "unsafe-fp-math"="false" "use-soft-float"="false" }
!llvm.ident = !{!0}
!0 = metadata !{metadata !"clang version 3.4 (tags/RELEASE_34/final)"}
```