```
%n.addr.i = alloca i32, align 4
                                                                      %A.addr.i = alloca double*, align 8
                                                                      %B.addr.i = alloca double*, align 8
                                                                      %.kmpc loc.addr.i = alloca %struct.ident t, align 8
                                                                      call void @llvm.dbg.value(metadata i32 %argc, metadata !26, metadata
                                                                      ...!DIExpression()), !dbg !33
                                                                      call void @llvm.dbg.value(metadata i8** %argv, metadata !27, metadata
                                                                      ...!DIExpression()), !dbg!33
                                                                      call void @llvm.dbg.value(metadata i32 10000, metadata !28, metadata
                                                                      ...!DIExpression()),!dbq!33
                                                                      call void @llvm.dbg.value(metadata i32 100, metadata !29, metadata
                                                                      ...!DIExpression()), !dbg !33
                                                                      %arrayidx = getelementptr inbounds i8*, i8** %argv, i64 1, !dbg !34
                                                                      %0 = load i8*, i8** %arrayidx, align 8, !dbg !34, !tbaa !35
                                                                      call void @llvm.dbg.value(metadata i8* %0, metadata !39, metadata
                                                                      ... !DIExpression()) #7, !dbg !46
                                                                      %call.i = tail call i64 @strtol(i8* nocapture nonnull %0, i8** null, i32 10)
                                                                      ... #7, !dbg !48
                                                                      call void @llvm.dbg.value(metadata i32 %conv.i, metadata !30, metadata
                                                                      ... !DIExpression()), !dbg !33
                                                                      %call1 = tail call noalias dereferenceable or null(80000) i8* @malloc(i64
                                                                      ... 80000) #7, !dbg !49
                                                                      %1 = bitcast i8* %call1 to double*, !dbg !50
                                                                      call void @llvm.dbg.value(metadata double* %1, metadata !31, metadata
                                                                      ...!DIExpression()), !dbg !33
                                                                      %call4 = tail call noalias dereferenceable or null(80000) i8* @malloc(i64
                                                                      ... 80000) #7, !dbg !51
                                                                      %2 = bitcast i8* %call4 to double*, !dbg !52
                                                                      call void @llvm.dbg.value(metadata double* %2, metadata !32, metadata
                                                                      ...!DIExpression()),!dbg!33
                                                                      call void @llvm.dbg.value(metadata i32 10000, metadata !53, metadata
                                                                      ... !DIExpression()), !dbg !62
                                                                      call void @llvm.dbg.value(metadata double* %1, metadata !59, metadata
                                                                      ...!DIExpression()), !dbg !62
                                                                      call void @llvm.dbg.value(metadata double* %2, metadata !60, metadata
                                                                      ...!DIExpression()), !dbg!62
                                                                      call void @llvm.dbg.value(metadata i32 0, metadata !61, metadata
                                                                      ... !DIExpression()), !dbg !62
                                                                      br label %for.body.i, !dbg !64
                                                                   for.bodv.i:
                                                                    %indvars.iv.i = phi i64 [ 0, %entry ], [ %indvars.iv.next.i, %for.body.i ]
                                                                    call void @llvm.dbg.value(metadata i64 %indvars.iv.i, metadata !61, metadata
                                                                    ...!DIExpression()), !dbg !62
                                                                    %3 = trunc i64 %indvars.iv.i to i32, !dbg !66
                                                                    %conv.i24 = sitofp i32 %3 to double, !dbg !66
                                                                    %add.i = fadd double %conv.i24, 2.000000e+00, !dbg !69
                                                                    %div.i = fdiv double %add.i, 1.000000e+04, !dbg !70
                                                                    %arrayidx.i = getelementptr inbounds double, double* %1, i64 %indvars.iv.i,
                                                                    ...!dbg!71
                                                                    store double %div.i, double* %arrayidx.i, align 8, !dbg !72, !tbaa !73
                                                                    %add3.i = fadd double %conv.i24, 3.000000e+00, !dbg !75
                                                                    %div5.i = fdiv double %add3.i, 1.000000e+04, !dbg !76
                                                                    %arrayidx7.i = getelementptr inbounds double, double* %2, i64 %indvars.iv.i,
                                                                    store double %div5.i, double* %arrayidx7.i, align 8, !dbg !78, !tbaa !73
                                                                    %indvars.iv.next.i = add nuw nsw i64 %indvars.iv.i, 1, !dbg !79
                                                                    call void @llvm.dbg.value(metadata i64 %indvars.iv.next.i, metadata !61,
                                                                    ... metadata !DIExpression()), !dbg !62
                                                                    %exitcond.i = icmp eq i64 %indvars.iv.next.i, 10000, !dbg !80
                                                                    br i1 %exitcond.i, label %init array.exit, label %for.body.i, !dbg !64,
                                                                    ... !llvm.loop !81
                                                                                                                               F
                                               init array.exit:
                                               %conv.i = trunc i64 %call.i to i32, !dbg !83
                                                %4 = bitcast i32* %tsteps.addr.i to i8*
                                                call void @llvm.lifetime.start.p0i8(i64 4, i8* nonnull %4)
                                               %5 = bitcast i32* %n.addr.i to i8*
                                                call void @llvm.lifetime.start.p0i8(i64 4, i8* nonnull %5)
                                                %6 = bitcast double** %A.addr.i to i8*
                                                call void @llvm.lifetime.start.p0i8(i64 8, i8* nonnull %6)
                                                %7 = bitcast double** %B.addr.i to i8*
                                                call void @llvm.lifetime.start.p0i8(i64 8, i8* nonnull %7)
                                                %8 = bitcast %struct.ident_t* %.kmpc_loc.addr.i to i8*
                                                call void @llvm.lifetime.start.p0i8(i64 24, i8* nonnull %8)
                                               call void @llvm.memcpy.p0i8.p0i8.i64(i8* nonnull align 8 dereferenceable(24)
                                               ... %8, i8* nonnull align 8 dereferenceable(24) bitcast (%struct.ident t* @0 to
                                               ... i8*), i64 16, i1 false) #7
                                               call void @llvm.dbg.value(metadata i32 100, metadata !84, metadata
                                               ... !DIExpression()) #7, !dbg !95
                                               store i32 100, i32* %tsteps.addr.i, align 4, !tbaa !97
                                               call void @llvm.dbg.value(metadata i32 10000, metadata !89, metadata
                                               ... !DIExpression()) #7, !dbg !95
                                               store i32 10000, i32* %n.addr.i, align 4, !tbaa !97
                                                call void @llvm.dbg.value(metadata double* %1, metadata !90, metadata
                                               ... !DIExpression()) #7, !dbg !95
                                               %9 = bitcast double** %A.addr.i to i8**
                                               store i8* %call1, i8** %9, align 8, !tbaa !35
                                                call void @llvm.dbg.value(metadata double* %2, metadata !91, metadata
                                               ... !DIExpression()) #7, !dbg !95
                                               %10 = bitcast double** %B.addr.i to i8**
                                               store i8* %call4, i8** %10, align 8, !tbaa !35
                                                call void @llvm.dbg.value(metadata i32 10000, metadata !89, metadata
                                               ... !DIExpression()) #7, !dbg !95
                                               %11 = getelementptr inbounds %struct.ident t, %struct.ident t*
                                               ... %.kmpc loc.addr.i, i64 0, i32 4, !dbg !99
                                                store i8* getelementptr inbounds ([49 x i8], [49 x i8]* @1, i64 0, i64 0),
                                               ... i8** %11, align 8, !dbg !99, !tbaa !100
                                               call void @llvm.dbg.value(metadata i32* %tsteps.addr.i, metadata !84,
                                               ... metadata !DIExpression(DW_OP_deref)) #7, !dbg !95
                                                call void @llvm.dbg.value(metadata i32* %n.addr.i, metadata !89, metadata
                                               ...!DIExpression(DW OP deref)) #7, !dbg !95
                                               call void @llvm.dbg.value(metadata double** %A.addr.i, metadata !90,
                                               ... metadata !DIExpression(DW_OP_deref)) #7, !dbg !95
                                               call void @llvm.dbg.value(metadata double** %B.addr.i, metadata !91,
                                               ... metadata !DIExpression(DW_OP_deref)) #7, !dbg !95
                                               call void (%struct.ident_t*, i32, void (i32*, i32*, ...)*, ...)
                                               ... @ kmpc fork call(%struct.ident t* nonnull %.kmpc loc.addr.i, i32 6, void
                                               ... (i\overline{32}^*, i\overline{32}^*, ...)^* bitcast (void (i32^*, i32^*, i32^*, i32^*, i64, double**, i64,
                                               ... double**)* @.omp_outlined. to void (i32*, i32*, ...)*), i32* nonnull
                                               ... %tsteps.addr.i, i32* nonnull %n.addr.i, i64 10000, double** nonnull
                                               ... %B.addr.i, i64 10000, double** nonnull %A.addr.i) #7, !dbg !99
                                               call void @llvm.lifetime.end.p0i8(i64 4, i8* nonnull %4), !dbg !102
                                               call void @llvm.lifetime.end.p0i8(i64 4, i8* nonnull %5), !dbg !102
                                                call void @llvm.lifetime.end.p0i8(i64 8, i8* nonnull %6), !dbg !102
                                                call void @llvm.lifetime.end.p0i8(i64 8, i8* nonnull %7), !dbg !102
                                                call void @llvm.lifetime.end.p0i8(i64 24, i8* nonnull %8), !dbg !102
                                                %cmp = icmp eq i32 %conv.i, 1, !dbg !103
                                                br i1 %cmp, label %if.then, label %if.end, !dbg !105
                                                                                                          F
                           if.then:
                            call void @llvm.dbg.value(metadata i32 10000, metadata !106, metadata
                           ... !DIExpression()) #7, !dbg !113
                            call void @llvm.dbg.value(metadata double* %1, metadata !111, metadata
                           ... !DIExpression()) #7, !dbg !113
                            call void @llvm.dbg.value(metadata i32 0, metadata !112, metadata
                           ... !DIExpression()) #7, !dbg !113
                           %12 = load %struct. IO FILE*, %struct. IO FILE** @stderr, align 8, !dbg
                           ... !113, !tbaa !35
                            br label %for.body.i28, !dbg !115
                          for.body.i28:
                          %indvars.iv.i25 = phi i64 [ 0, %if.then ], [ %indvars.iv.next.i29,
                           %for.inc.i ]
                          %13 = phi %struct. IO FILE* [ %12, %if.then ], [ %16, %for.inc.i ]
                          %i.05.i = phi i32 [ 0, %if.then ], [ %inc.i, %for.inc.i ]
                          call void @llvm.dbg.value(metadata i64 %indvars.iv.i25, metadata !112,
                          ... metadata !DIExpression()) #7, !dbg !113
                          %arrayidx.i26 = getelementptr inbounds double, double* %1, i64
                          ... %indvars.iv.i25, !dbg !117
                          %14 = load double, double* %arrayidx.i26, align 8, !dbg !117, !tbaa !73
                          %call.i27 = call i32 (%struct._IO_FILE*, i8*, ...)
                          ... @fprintf(%struct. IO FILE* %13, i8* getelementptr inbounds ([8 x i8], [8 x
                          ... i8]^* @.str.1, i64\ 0, i6\overline{4}\ 0), double %14) #8, !dbg !120
                          %rem.lhs.trunc.i = trunc i32 %i.05.i to i16, !dbg !121
                          %rem4.i = urem i16 %rem.lhs.trunc.i, 20, !dbg !121
                          %cmp1.i = icmp eq i16 %rem4.i, 0, !dbg !123
                          br i1 %cmp1.i, label %if.then.i, label %for.inc.i, !dbg !124
                                                                                    F
if.then.i:
%15 = load %struct. IO FILE*, %struct. IO FILE** @stderr, align 8, !dbg
... !125, !tbaa !35
%fputc3.i = call i32 @fputc(i32 10, %struct. IO FILE* %15) #8, !dbg !126
br label %for.inc.i, !dbg !126
                       %indvars.iv.next.i29 = add nuw nsw i64 %indvars.iv.i25, 1, !dbg !127
                       %inc.i = add nuw nsw i32 %i.05.i, 1, !dbg !127
                       call void @llvm.dbg.value(metadata i64 %indvars.iv.next.i29, metadata !112,
                       ... metadata !DIExpression()) #7, !dbg !113
                       %16 = load %struct. IO FILE*, %struct. IO FILE** @stderr, align 8, !dbg
                       ...!113, !tbaa!35
                       %exitcond.i30 = icmp eq i64 %indvars.iv.next.i29, 10000, !dbg !128
                       br i1 %exitcond.i30, label %print array.exit, label %for.body.i28, !dbg
                       ...!115,!llvm.loop!129
                 print array.exit:
                 %fputc.i = call i32 @fputc(i32 10, %struct. IO FILE* %16) #8, !dbg !131
                 br label %if.end, !dbg !132
                                                  if.end:
                                                   call void @free(i8* nonnull %call1) #7, !dbg !133
                                                  call void @free(i8* %call4) #7, !dbg !134
                                                   ret i32 0, !dbg !135
```

CFG for 'main' function

entry:

%tsteps.addr.i = alloca i32, align 4