%8: %9 = shl i64 %5, 5%cmp218.i = icmp sgt i32 %3, 0 %wide.trip.count.i = zext i32 %3 to i64 %10 = add nsw i64 %wide.trip.count.i, -1 %xtraiter.i = and i64 %wide.trip.count.i, 3 %11 = icmp ult i64 %10, 3 %unroll iter.i = sub nuw nsw i64 %wide.trip.count.i, %xtraiter.i %lcmp.mod.i = icmp eq i64 %xtraiter.i, 0 br i1 %cmp218.i, label %pregion for entry.entry.i.us.preheader, label ... %mvt kernel1.exit F pregion for entry.entry.i.us.preheader: br label %pregion for entry.entry.i.us pregion for entry.entry.i.us: % local id \bar{x} .0.us = phi i64 [%38, %if.end.i.us], [0, ... %pregion_for_entry.entry.i.us.preheader]
%12 = add nuw nsw i64 %_local_id_x.0.us, %9 %conv.i.us = trunc i64 %12 to i32%cmp.i.us = icmp slt i32 %conv.i.us, %3 br i1 %cmp.i.us, label %for.body.lr.ph.i.us, label %if.end.i.us for.body.lr.ph.i.us: %mul.i.us = mul nsw i32 %conv.i.us, %3 %sext.i.us = shl i64 %12, 32 %idxprom7.i.us = ashr exact i64 %sext.i.us, 32 %arrayidx8.i.us = getelementptr inbounds float, float* %1, i64 %idxprom7.i.us %13 = sext i32 %mul.i.us to i64 %.pre.i1.us15 = load float, float* %arrayidx8.i.us, align 4, !tbaa !12 br i1 %11, label %if.end.loopexit.unr-lcssa.i.us, label ... %for.body.i.us.preheader Τ F for.body.i.us.preheader: br label %for.body.i.us for.body.i.us: %niter.nsub.3.i7.us = phi i64 [%niter.nsub.3.i.us, %for.body.i.us], [... %unroll iter.i, %for.body.i.us.preheader] %indvars.iv.next.3.i4.us = phi i64 [%indvars.iv.next.3.i.us, %for.body.i.us ...], [0, %for.body.i.us.preheader] %14 = phi float [%30, %for.body.i.us], [%.pre.i1.us15, ... %for.body.i.us.preheader] %15 = add nsw i64 %indvars.iv.next.3.i4.us, %13 %arrayidx.i.us = getelementptr inbounds float, float* %0, i64 %15 %16 = load float, float* %arrayidx.i.us, align 4, !tbaa !12 %arrayidx5.i.us = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.3.i4.us %17 = load float, float* %arrayidx5.i.us, align 4, !tbaa !12 %18 = tail call float @llvm.fmuladd.f32(float %16, float %17, float %14) #2 store float %18, float* %arrayidx8.i.us, align 4, !tbaa !12, ...!llvm.access.group!16 %indvars.iv.next.i.us = or i64 %indvars.iv.next.3.i4.us, 1 %19 = add nsw i64 %indvars.iv.next.i.us, %13 %arrayidx.1.i.us = getelementptr inbounds float, float* %0, i64 %19 %20 = load float, float* %arrayidx.1.i.us, align 4, !tbaa !12 %arrayidx5.1.i.us = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.i.us %21 = load float, float* %arrayidx5.1.i.us, align 4, !tbaa !12 %22 = tail call float @llvm.fmuladd.f32(float %20, float %21, float %18) #2 store float %22, float* %arrayidx8.i.us, align 4, !tbaa !12, ...!llvm.access.group!16 %indvars.iv.next.1.i.us = or i64 %indvars.iv.next.3.i4.us, 2 %23 = add nsw i64 %indvars.iv.next.1.i.us, %13 %arrayidx.2.i.us = getelementptr inbounds float, float* %0, i64 %23 %24 = load float, float* %arrayidx.2.i.us, align 4, !tbaa !12 %arrayidx5.2.i.us = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.1.i.us %25 = load float, float* %arrayidx5.2.i.us, align 4, !tbaa !12 %26 = tail call float @llvm.fmuladd.f32(float %24, float %25, float %22) #2 store float %26, float* %arrayidx8.i.us, align 4, !tbaa !12, ...!llvm.access.group!16 %indvars.iv.next.2.i.us = or i64 %indvars.iv.next.3.i4.us, 3 %27 = add nsw i64 %indvars.iv.next.2.i.us, %13 %arrayidx.3.i.us = getelementptr inbounds float, float* %0, i64 %27 %28 = load float, float* %arrayidx.3.i.us, align 4, !tbaa !12 %arrayidx5.3.i.us = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.2.i.us %29 = load float, float* %arrayidx5.3.i.us, align 4, !tbaa !12 %30 = tail call float @llvm.fmuladd.f32(float %28, float %29, float %26) #2 store float %30, float* %arrayidx8.i.us, align 4, !tbaa !12, ...!llvm.access.group!16 %indvars.iv.next.3.i.us = add nuw nsw i64 %indvars.iv.next.3.i4.us, 4 %niter.nsub.3.i.us = add i64 %niter.nsub.3.i7.us, -4 %niter.ncmp.3.i.us = icmp eq i64 %niter.nsub.3.i.us, 0 br i1 %niter.ncmp.3.i.us, label %if.end.loopexit.unr-lcssa.i.us.loopexit, ... label %for.bodv.i.us F if.end.loopexit.unr-lcssa.i.us.loopexit: %.lcssa = phi float [%30, %for.body.i.us] %indvars.iv.next.3.i.us.lcssa = phi i64 [%indvars.iv.next.3.i.us, ... %for.body.i.us] br label %if.end.loopexit.unr-lcssa.i.us if.end.loopexit.unr-lcssa.i.us: %31 = phi float [%.pre.i1.us15, %for.body.lr.ph.i.us], [%.lcssa, ... %if.end.loopexit.unr-lcssa.i.us.loopexit] %32 = phi i64 [0, %for.body.lr.ph.i.us], [%indvars.iv.next.3.i.us.lcssa, %if.end.loopexit.unr-lcssa.i.us.loopexit] br i1 %lcmp.mod.i, label %if.end.i.us, label %for.body.epil.i.us.preheader for.body.epil.i.us.preheader: br label %for.body.epil.i.us for.body.epil.i.us: %epil.iter.sub.i13.us = phi i64 [%epil.iter.sub.i.us, %for.body.epil.i.us ...], [%xtraiter.i, %for.body.epil.i.us.preheader] %indvars.iv.next.epil.i11.us = phi i64 [%indvars.iv.next.epil.i.us, ... %for.body.epil.i.us], [%32, %for.body.epil.i.us.preheader] %33 = phi float [%37, %for.body.epil.i.us], [%31, ... %for.body.epil.i.us.preheader] %34 = add nsw i64 %indvars.iv.next.epil.i11.us, %13 %arrayidx.epil.i.us = getelementptr inbounds float, float* %0, i64 %34 %35 = load float, float* %arrayidx.epil.i.us, align 4, !tbaa !12 %arrayidx5.epil.i.us = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.epil.i11.us
%36 = load float, float* %arrayidx5.epil.i.us, align 4, !tbaa !12 %37 = tail call float @llvm.fmuladd.f32(float %35, float %36, float %33) #2 store float %37, float* %arrayidx8.i.us, align 4, !tbaa !12, ...!llvm.access.group!16 %indvars.iv.next.epil.i.us = add nuw nsw i64 %indvars.iv.next.epil.i11.us, 1 %epil.iter.sub.i.us = add nsw i64 %epil.iter.sub.i13.us, -1 %epil.iter.cmp.i.us = icmp eq i64 %epil.iter.sub.i.us, 0 br i1 %epil.iter.cmp.i.us, label %if.end.i.us.loopexit, label ... %for.body.epil.i.us, !llvm.loop !18 F if.end.i.us.loopexit: br label %if.end.i.us if.end.i.us: %38 = add nuw nsw i64 % local id x.0.us, 1%exitcond = icmp eq i64 $\sqrt{3}$ 8, $3\overline{2}$ br i1 %exitcond, label %mvt kernel1.exit.loopexit, label ... %pregion for entry.entry.i.us, !llvm.loop !20 mvt_kernel1.exit.loopexit: br label %mvt kernel1.exit mvt kernel1.exit: