%9: %mul.i.i = shl i64 %6, 8 %cmp219.i = icmp sgt i32 %4, 0, !llvm.access.group !12 %wide.trip.count.i = zext i32 %4 to i64 br i1 %cmp219.i, label %pregion for entry.entry.i.us.preheader, label ... %gemver kernel3.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 x.0.us = phi i64 [ %23, %if.end.r exit.i.us.1 ], [ 0, ... %pregion for entry.entry.i.us.preheader ] %add1.i.i.us = add nuw nsw i64 % local id x.0.us, %mul.i.i, ...!llvm.access.group!12 %conv.i.us = trunc i64 %add1.i.i.us to i32, !llvm.access.group !12 %cmp.i.us = icmp slt i32 %conv.i.us, %4, !llvm.access.group !12 br i1 %cmp.i.us, label %for.body.lr.ph.i.us, label %if.end.r exit.i.us, ...!llvm.access.group!12 for.body.lr.ph.i.us: %mul.i.us = mul nsw i32 %conv.i.us, %4, !llvm.access.group !12 %sext.i.us = shl i64 %add1.i.i.us, 32, !llvm.access.group !12 %idxprom8.i.us = ashr exact i64 %sext.i.us, 32, !llvm.access.group !12 %arrayidx9.i.us = getelementptr inbounds float, float\* %2, i64 ... %idxprom8.i.us, !llvm.access.group !12 %10 = sext i32 %mul.i.us to i64, !llvm.access.group !12 %.pre.i1.us4 = load float, float\* %arrayidx9.i.us, align 4, !tbaa !14, ...!llvm.access.group!12 br label %for.body.i.us, !llvm.access.group !12 for.body.i.us: %indvars.iv.next.i3.us = phi i64 [ %indvars.iv.next.i.us, %for.body.i.us ], ... [ 0, %for.body.lr.ph.i.us ] %11 = phi float [ %15, %for.body.i.us ], [ %.pre.i1.us4, ... %for.body.lr.ph.i.us ] %12 = add nsw i64 %indvars.iv.next.i3.us, %10, !llvm.access.group !12 %arrayidx.i.us = getelementptr inbounds float, float\* %0, i64 %12, ...!llvm.access.group!12 %13 = load float, float\* %arrayidx.i.us, align 4, !tbaa !14, ...!llvm.access.group!12 %mul4.i.us = fmul float %13, %3, !llvm.access.group !12 %arrayidx6.i.us = getelementptr inbounds float, float\* %1, i64 ... %indvars.iv.next.i3.us, !llvm.access.group !12 %14 = load float, float\* %arrayidx6.i.us, align 4, !tbaa !14, ...!llvm.access.group!12 %15 = tail call float @llvm.fmuladd.f32(float %mul4.i.us, float %14, float ... %11) #2, !llvm.access.group !12 store float %15, float\* %arrayidx9.i.us, align 4, !tbaa !14, ...!llvm.access.group!12 %indvars.iv.next.i.us = add nuw nsw i64 %indvars.iv.next.i3.us, 1, ...!llvm.access.group!12 %exitcond.not.i.us = icmp eq i64 %indvars.iv.next.i.us, %wide.trip.count.i, ...!llvm.access.group!12 br i1 %exitcond.not.i.us, label %if.end.r exit.i.us.loopexit, label ... %for.body.i.us, !llvm.loop !18, !llvm.access.group !12 F if.end.r exit.i.us.loopexit: br label %if.end.r exit.i.us if.end.r exit.i.us: %16 = or i64 %\_local\_id\_x.0.us, 1 %add1.i.i.us.1 = add nuw nsw i64 %16, %mul.i.i, !llvm.access.group !12 %conv.i.us.1 = trunc i64 %add1.i.i.us.1 to i32, !llvm.access.group !12 %cmp.i.us.1 = icmp slt i32 %conv.i.us.1, %4, !llvm.access.group !12 br i1 %cmp.i.us.1, label %for.body.lr.ph.i.us.1, label ... %if.end.r exit.i.us.1, !llvm.access.group !12 F for.body.lr.ph.i.us.1: %mul.i.us.1 = mul nsw i32 %conv.i.us.1, %4, !llvm.access.group !12 %sext.i.us.1 = shl i64 %add1.i.i.us.1, 32, !llvm.access.group !12 %idxprom8.i.us.1 = ashr exact i64 %sext.i.us.1, 32, !llvm.access.group !12 %arrayidx9.i.us.1 = getelementptr inbounds float, float\* %2, i64 ... %idxprom8.i.us.1, !llvm.access.group !12 %17 = sext i32 %mul.i.us.1 to i64, !llvm.access.group !12 %.pre.i1.us4.1 = load float, float\* %arrayidx9.i.us.1, align 4, !tbaa !14, ... !llvm.access.group !12 br label %for.body.i.us.1, !llvm.access.group !12 for.body.i.us.1: %indvars.iv.next.i3.us.1 = phi i64 [ %indvars.iv.next.i.us.1, ... %for.body.i.us.1 ], [ 0, %for.body.lr.ph.i.us.1 ] %18 = phi float [ %22, %for.body.i.us.1 ], [ %.pre.i1.us4.1, ... %for.body.lr.ph.i.us.1 ] %19 = add nsw i64 %indvars.iv.next.i3.us.1, %17, !llvm.access.group !12 %arrayidx.i.us.1 = getelementptr inbounds float, float\* %0, i64 %19, ...!llvm.access.group!12 %20 = load float, float\* %arrayidx.i.us.1, align 4, !tbaa !14, ...!llvm.access.group!12 %mul4.i.us.1 = fmul float %20, %3, !llvm.access.group !12 %arrayidx6.i.us.1 = getelementptr inbounds float, float\* %1, i64 ... %indvars.iv.next.i3.us.1, !llvm.access.group !12 %21 = load float, float\* %arrayidx6.i.us.1, align 4, !tbaa !14, ...!llvm.access.group!12 %22 = tail call float @llvm.fmuladd.f32(float %mul4.i.us.1, float %21, float ... %18) #2, !llvm.access.group !12 store float %22, float\* %arrayidx9.i.us.1, align 4, !tbaa !14, ...!llvm.access.group!12 %indvars.iv.next.i.us.1 = add nuw nsw i64 %indvars.iv.next.i3.us.1, 1, ...!llvm.access.group!12 %exitcond.not.i.us.1 = icmp eq i64 %indvars.iv.next.i.us.1, ... %wide.trip.count.i, !llvm.access.group !12 br i1 %exitcond.not.i.us.1, label %if.end.r exit.i.us.1.loopexit, label ... %for.bodv.i.us.1, !llvm.loop !18, !llvm.access.group !12 if.end.r exit.i.us.1.loopexit: br label %if.end.r exit.i.us.1 if.end.r exit.i.us.1: %23 = add nuw nsw i64 % local id x.0.us, 2%exitcond.not.1 = icmp eq i64 %2 $\overline{3}$ , 256 br i1 %exitcond.not.1, label %gemver kernel3.exit.loopexit, label ... %pregion for entry.entry.i.us, !llvm.loop !20 F gemver kernel3.exit.loopexit: br label %gemver kernel3.exit gemver kernel3.exit: ret void