%8: %mul.i.i = shl i64 %5, 5 %cmp218.i = icmp sqt i32 %3, 0, !llvm.access.group !12 %9 = zext i 32 % 3 to i 64br i1 %cmp218.i, label %pregion for entry.entry.i.us.preheader, label ... %mvt kernel2.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 [%23, %if.end.r exit.i.us.1], [0, ... %pregion for entry.entry.i.us.preheader] %add1.i.i.u $\bar{s} = \bar{a}$ dd 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, %3, !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: %sext.i.us = shl i64 %add1.i.i.us, 32, !llvm.access.group !12 %idxprom7.i.us = ashr exact i64 %sext.i.us, 32, !llvm.access.group !12 %arrayidx8.i.us = getelementptr inbounds float, float* %1, i64 ... %idxprom7.i.us, !llvm.access.group !12
%.pre.i1.us4 = load float, float* %arrayidx8.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] %10 = phi float [%15, %for.body.i.us], [%.pre.i1.us4, ... %for.body.lr.ph.i.us] %11 = mul nuw nsw i64 %indvars.iv.next.i3.us, %9, !llvm.access.group !12 %12 = add nsw i64 %11, %idxprom7.i.us, !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 %arrayidx5.i.us = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.i3.us, !llvm.access.group !12
%14 = load float, float* %arrayidx5.i.us, align 4, !tbaa !14, ...!llvm.access.group!12 %15 = tail call float @llvm.fmuladd.f32(float %13, float %14, float %10) #2, ...!llvm.access.group!12 store float %15, float* %arrayidx8.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, %9, ...!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 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, %3, !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 for.body.lr.ph.i.us.1: %sext.i.us.1 = shl i64 %add1.i.i.us.1, 32, !llvm.access.group !12 %idxprom7.i.us.1 = ashr exact i64 %sext.i.us.1, 32, !llvm.access.group !12 %arrayidx8.i.us.1 = getelementptr inbounds float, float* %1, i64 ... %idxprom7.i.us.1, !llvm.access.group !12 %.pre.i1.us4.1 = load float, float* %arrayidx8.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] %17 = phi float [%22, %for.body.i.us.1], [%.pre.i1.us4.1, ... %for.body.lr.ph.i.us.1] %18 = mul nuw nsw i64 %indvars.iv.next.i3.us.1, %9, !llvm.access.group !12 %19 = add nsw i64 %18, %idxprom7.i.us.1, !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 %arrayidx5.i.us.1 = getelementptr inbounds float, float* %2, i64 ... %indvars.iv.next.i3.us.1, !llvm.access.group !12 %21 = load float, float* %arrayidx5.i.us.1, align 4, !tbaa !14, ...!llvm.access.group!12 %22 = tail call float @llvm.fmuladd.f32(float %20, float %21, float %17) #2, ...!llvm.access.group!12 store float %22, float* %arrayidx8.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, %9. ...!llvm.access.group!12 br i1 %exitcond.not.i.us.1, label %if.end.r_exit.i.us.1.loopexit, label ... %for.body.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 %23, 32 br i1 %exitcond.not.1, label %mvt kernel2.exit.loopexit, label ... %pregion for entry.entry.i.us, !llvm.loop !20 F mvt kernel2.exit.loopexit: br label %mvt kernel2.exit mvt kernel2.exit: ret void

CFG for 'pocl kernel mvt kernel2' function