

```
entry:
  %cconvert1 = getelementptr inbounds %struct.jpeg_compress_struct,
... %struct.jpeg_compress_struct* %cinfo, i64 0, i32 56
  %0 = bitcast %struct.jpeg_color_converter** %cconvert1 to
... %struct.my_color_converter**
  %1 = load %struct.my_color_converter*, %struct.my_color_converter** %0,
... align 8, !tbaa !3
  %rgb_ycc_tab = getelementptr inbounds %struct.my_color_converter,
... %struct.my_color_converter* %1, i64 0, i32 1
  %2 = load i64*, i64** %rgb_ycc_tab, align 8, !tbaa !11
  %image_width = getelementptr inbounds %struct.jpeg_compress_struct,
... %struct.jpeg_compress_struct* %cinfo, i64 0, i32 6
  %3 = load i32, i32* %image_width, align 8, !tbaa !14
  %cmp48 = icmp slt i32 %num_rows, 1
  %cmp344 = icmp eq i32 %3, 0
  %or.cond = or i1 %cmp48, %cmp344
  br i1 %or.cond, label %while.end, label %while.body.us.preheader
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while.body.us.preheader:
  br label %while.body.us
```

```
while.body.us:
  %dec51.us.in = phi i32 [ %dec51.us,
... %for.cond.while.cond.loopexit_crit_edge.us ], [ %num_rows,
... %while.body.us.preheader ]
  %input_buf.addr.050.us = phi i8** [ %incdec.ptr.us,
... %for.cond.while.cond.loopexit_crit_edge.us ], [ %input_buf,
... %while.body.us.preheader ]
  %output_row.addr.049.us = phi i32 [ %inc.us,
... %for.cond.while.cond.loopexit_crit_edge.us ], [ %output_row,
... %while.body.us.preheader ]
  %dec51.us = add nsw i32 %dec51.us.in, -1
  %4 = load i8*, i8** %input_buf.addr.050.us, align 8, !tbaa !15
  %idxprom.us = zext i32 %output_row.addr.049.us to i64
  %5 = load i8**, i8*** %output_buf, align 8, !tbaa !15
  %arrayidx2.us = getelementptr inbounds i8*, i8** %5, i64 %idxprom.us
  %6 = load i8*, i8** %arrayidx2.us, align 8, !tbaa !15
  br label %for.body.us
```

```
for.body.us:
  %indvars.iv = phi i64 [ 0, %while.body.us ], [ %indvars.iv.next,
... %for.body.us ]
  %inptr.045.us = phi i8* [ %4, %while.body.us ], [ %add.ptr.us, %for.body.us ]
  %7 = load i8, i8* %inptr.045.us, align 1, !tbaa !16
  %arrayidx5.us = getelementptr inbounds i8, i8* %inptr.045.us, i64 1
  %8 = load i8, i8* %arrayidx5.us, align 1, !tbaa !16
  %conv6.us = zext i8 %8 to i64
  %arrayidx7.us = getelementptr inbounds i8, i8* %inptr.045.us, i64 2
  %9 = load i8, i8* %arrayidx7.us, align 1, !tbaa !16
  %conv8.us = zext i8 %9 to i64
  %add.ptr.us = getelementptr inbounds i8, i8* %inptr.045.us, i64 3
  %idxprom9.us = zext i8 %7 to i64
  %arrayidx10.us = getelementptr inbounds i64, i64* %2, i64 %idxprom9.us
  %10 = load i64, i64* %arrayidx10.us, align 8, !tbaa !17
  %add11.us = or i64 %conv6.us, 256
  %arrayidx13.us = getelementptr inbounds i64, i64* %2, i64 %add11.us
  %11 = load i64, i64* %arrayidx13.us, align 8, !tbaa !17
  %add14.us = add nsw i64 %11, %10
  %add15.us = or i64 %conv8.us, 512
  %arrayidx17.us = getelementptr inbounds i64, i64* %2, i64 %add15.us
  %12 = load i64, i64* %arrayidx17.us, align 8, !tbaa !17
  %add18.us = add nsw i64 %add14.us, %12
  %shr43.us = lshr i64 %add18.us, 16
  %conv19.us = trunc i64 %shr43.us to i8
  %arrayidx21.us = getelementptr inbounds i8, i8* %6, i64 %indvars.iv
  store i8 %conv19.us, i8* %arrayidx21.us, align 1, !tbaa !16
  %indvars.iv.next = add nuw nsw i64 %indvars.iv, 1
  %lfr.wideiv = trunc i64 %indvars.iv.next to i32
  %exitcond = icmp eq i32 %lfr.wideiv, %3
  br i1 %exitcond, label %for.cond.while.cond.loopexit_crit_edge.us, label
... %for.body.us
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for.cond.while.cond.loopexit_crit_edge.us:
  %incdec.ptr.us = getelementptr inbounds i8*, i8** %input_buf.addr.050.us,
... i64 1
  %inc.us = add i32 %output_row.addr.049.us, 1
  %cmp.us = icmp sgt i32 %dec51.us.in, 1
  br i1 %cmp.us, label %while.body.us, label %while.end.loopexit
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```
while.end.loopexit:
  br label %while.end
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```
while.end:
  ret void
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CFG for 'rgb_gray_convert' function