

```
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
  %cmp126 = icmp sgt i32 %num_rows, 0
  br i1 %cmp126, label %while.body.lr.ph, label %while.end
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while.body.lr.ph:
  %arrayidx4 = getelementptr inbounds i8**, i8*** %output_buf, i64 1
  %arrayidx7 = getelementptr inbounds i8**, i8*** %output_buf, i64 2
  %arrayidx10 = getelementptr inbounds i8**, i8*** %output_buf, i64 3
  %cmp12122 = icmp eq i32 %3, 0
  br i1 %cmp12122, label %while.end, label %while.body.us.preheader
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```
while.body.us.preheader:
  br label %while.body.us
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while.body.us:
  %dec129.us.in = phi i32 [ %dec129.us,
  ... %for.cond.while.cond.loopexit_crit_edge.us ], [ %num_rows,
  ... %while.body.us.preheader ]
  %input_buf.addr.0128.us = phi i8** [ %incdec.ptr.us,
  ... %for.cond.while.cond.loopexit_crit_edge.us ], [ %input_buf,
  ... %while.body.us.preheader ]
  %output_row.addr.0127.us = phi i32 [ %inc.us,
  ... %for.cond.while.cond.loopexit_crit_edge.us ], [ %output_row,
  ... %while.body.us.preheader ]
  %dec129.us = add nsw i32 %dec129.us.in, -1
  %4 = load i8*, i8** %input_buf.addr.0128.us, align 8, !tbaa !15
  %idxprom.us = zext i32 %output_row.addr.0127.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
  %7 = load i8**, i8*** %arrayidx4, align 8, !tbaa !15
  %arrayidx5.us = getelementptr inbounds i8*, i8** %7, i64 %idxprom.us
  %8 = load i8*, i8** %arrayidx5.us, align 8, !tbaa !15
  %9 = load i8**, i8*** %arrayidx7, align 8, !tbaa !15
  %arrayidx8.us = getelementptr inbounds i8*, i8** %9, i64 %idxprom.us
  %10 = load i8*, i8** %arrayidx8.us, align 8, !tbaa !15
  %11 = load i8**, i8*** %arrayidx10, align 8, !tbaa !15
  %arrayidx11.us = getelementptr inbounds i8*, i8** %11, i64 %idxprom.us
  %12 = load i8*, i8** %arrayidx11.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.0123.us = phi i8* [ %4, %while.body.us ], [ %add.ptr.us, %for.body.us
  ... ]
  %13 = load i8, i8* %inptr.0123.us, align 1, !tbaa !16
  %conv.us = zext i8 %13 to i32
  %sub.us = xor i32 %conv.us, 255
  %arrayidx14.us = getelementptr inbounds i8, i8* %inptr.0123.us, i64 1
  %14 = load i8, i8* %arrayidx14.us, align 1, !tbaa !16
  %conv15.us = zext i8 %14 to i32
  %sub16.us = xor i32 %conv15.us, 255
  %arrayidx17.us = getelementptr inbounds i8, i8* %inptr.0123.us, i64 2
  %15 = load i8, i8* %arrayidx17.us, align 1, !tbaa !16
  %conv18.us = zext i8 %15 to i32
  %sub19.us = xor i32 %conv18.us, 255
  %arrayidx20.us = getelementptr inbounds i8, i8* %inptr.0123.us, i64 3
  %16 = load i8, i8* %arrayidx20.us, align 1, !tbaa !16
  %arrayidx22.us = getelementptr inbounds i8, i8* %12, i64 %indvars.iv
  store i8 %16, i8* %arrayidx22.us, align 1, !tbaa !16
  %add.ptr.us = getelementptr inbounds i8, i8* %inptr.0123.us, i64 4
  %idxprom23110.us = zext i32 %sub.us to i64
  %arrayidx24.us = getelementptr inbounds i64, i64* %2, i64 %idxprom23110.us
  %17 = load i64, i64* %arrayidx24.us, align 8, !tbaa !17
  %add25.us = or i32 %sub16.us, 256
  %idxprom26111.us = zext i32 %add25.us to i64
  %arrayidx27.us = getelementptr inbounds i64, i64* %2, i64 %idxprom26111.us
  %18 = load i64, i64* %arrayidx27.us, align 8, !tbaa !17
  %add28.us = add nsw i64 %18, %17
  %add29.us = or i32 %sub19.us, 512
  %idxprom30112.us = zext i32 %add29.us to i64
  %arrayidx31.us = getelementptr inbounds i64, i64* %2, i64 %idxprom30112.us
  %19 = load i64, i64* %arrayidx31.us, align 8, !tbaa !17
  %add32.us = add nsw i64 %add28.us, %19
  %shr113.us = lshr i64 %add32.us, 16
  %conv33.us = trunc i64 %shr113.us to i8
  %arrayidx35.us = getelementptr inbounds i8, i8* %6, i64 %indvars.iv
  store i8 %conv33.us, i8* %arrayidx35.us, align 1, !tbaa !16
  %add36.us = or i32 %sub.us, 768
  %idxprom37114.us = zext i32 %add36.us to i64
  %arrayidx38.us = getelementptr inbounds i64, i64* %2, i64 %idxprom37114.us
  %20 = load i64, i64* %arrayidx38.us, align 8, !tbaa !17
  %add39.us = or i32 %sub16.us, 1024
  %idxprom40115.us = zext i32 %add39.us to i64
  %arrayidx41.us = getelementptr inbounds i64, i64* %2, i64 %idxprom40115.us
  %21 = load i64, i64* %arrayidx41.us, align 8, !tbaa !17
  %add42.us = add nsw i64 %21, %20
  %add43.us = or i32 %sub19.us, 1280
  %idxprom44116.us = zext i32 %add43.us to i64
  %arrayidx45.us = getelementptr inbounds i64, i64* %2, i64 %idxprom44116.us
  %22 = load i64, i64* %arrayidx45.us, align 8, !tbaa !17
  %add46.us = add nsw i64 %add42.us, %22
  %shr47117.us = lshr i64 %add46.us, 16
  %conv48.us = trunc i64 %shr47117.us to i8
  %arrayidx50.us = getelementptr inbounds i8, i8* %8, i64 %indvars.iv
  store i8 %conv48.us, i8* %arrayidx50.us, align 1, !tbaa !16
  %add51.us = or i32 %sub.us, 1280
  %idxprom52118.us = zext i32 %add51.us to i64
  %arrayidx53.us = getelementptr inbounds i64, i64* %2, i64 %idxprom52118.us
  %23 = load i64, i64* %arrayidx53.us, align 8, !tbaa !17
  %add54.us = or i32 %sub16.us, 1536
  %idxprom55119.us = zext i32 %add54.us to i64
  %arrayidx56.us = getelementptr inbounds i64, i64* %2, i64 %idxprom55119.us
  %24 = load i64, i64* %arrayidx56.us, align 8, !tbaa !17
  %add57.us = add nsw i64 %24, %23
  %add58.us = or i32 %sub19.us, 1792
  %idxprom59120.us = zext i32 %add58.us to i64
  %arrayidx60.us = getelementptr inbounds i64, i64* %2, i64 %idxprom59120.us
  %25 = load i64, i64* %arrayidx60.us, align 8, !tbaa !17
  %add61.us = add nsw i64 %add57.us, %25
  %shr62121.us = lshr i64 %add61.us, 16
  %conv63.us = trunc i64 %shr62121.us to i8
  %arrayidx65.us = getelementptr inbounds i8, i8* %10, i64 %indvars.iv
  store i8 %conv63.us, i8* %arrayidx65.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.0128.us,
  ... i64 1
  %inc.us = add i32 %output_row.addr.0127.us, 1
  %cmp.us = icmp sgt i32 %dec129.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
```

CFG for 'cmypk\_yeck\_convert' function