## Drawing Path

Pie(9.0)

recordOp->openGL

```
xref: /frameworks/base/libs/hwui/pipeline/skia/SkiaPipeline.cpp
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                                                                                           Search
  323 void SkiaPipeline::renderFrame(const LaverUpdateQueue& layers, const SkRect& clip,
                                     const std::vector<sp<RenderNode>>& nodes, bool opaque.
  325
                                     bool wideColorGamut, const Rect& contentDrawBounds,
  326
327
                                     sk sp<SkSurface> surface) {
           renderVectorDrawableCache();
  328
  329
           // draw all layers up front
  330
           renderLayersImpl(layers, opaque, wideColorGamut);
  331
  332
333
          // initialize the canvas for the current frame, that might be a recording carvas if SKP
           // capture is enabled.
  334
          std::unique_ptr<SkPictureRecorder> recorder;
  335
           SkCanvas* canvas = tryCapture(surface.get());
  336
  337
           renderFrameImpl(layers, clip, nodes, opaque, wideColorGamut, contentDrawBounds, canvas);
  338
339
           endCapture(surface.get());
  340
  341
           if (CC_UNLIKELY(Properties::debug0verdraw)/
  342
              renderOverdraw(layers, clip, nodes, contentDrawBounds, surface);
  343
  344
  345
           ATRACE_NAME("flush commands");
  346
           surface->getCanvas()->flush();
  347 }
```

```
xref: /external/skia/src/core/SkCanvas.cpp

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783
784
784
void SkCanvas::flush() {
    this->onFlush();
    786 }
    787
788 void SkCanvas::onFlush() {
    SkBaseDevice* device = this->getDevice();
    if (device) {
        device->flush();
        792
        }
        793 }
        794
```

```
xref: /external/skia/src/gpu/SkGpuDevice.cpp
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                                                                            Search only in
1663
1664 void SkGpuDevice::flush() {
1665 this->flushAndSignalSemaphores(0, nullptr);
1666 }
1667
1668 GrSemaphoresSubmitted SkGpuDevice::flushAndSignalSemaphores(int numSemaphores,
1669
                                                       GrBackendSemaphore signalSemaphores[]) {
1670
        ASSERT_SINGLE_OWNER
1671
        return fRenderTargetContext->prepareForExternalIO(numSemaphores, signalSemaphores);
1672
1673 }
```

```
xref: /external/skia/src/gpu/GrRenderTargetContext.cpp
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                                                                                         Search
      GrSemaphoresSubmitted GrRenderTargetContext::prepareForExternallO(
 1383
              int numSemaphores, GrBackendSemaphore backendSemaphores[]) {
          ASSERT SINGLE OWNER
 1384
          if (this->drawingManager()->wasAbandoned()) { return GrSemaphoresSubmitted::kNo; }
 1385
          SkDEBUGCODE(this->validate()
 1386
          GR_CREATE_TRACE_MARKER_CONTEXT("GrRenderTargetContext", "prepareForExternalIO", fContext);
 1387
 1388
          return this->drawingManager()->prepareSurfaceForExternal10(fRenderTargetProxy.get(),
 1389
 1390
                                                                   numSemaphores,
 1391
                                                                   backendSemaphores);
 1392
             Search only ir
```

```
xref: /external/skia/src/gpu/SkGpuDevice.cpp
 Home | History | Annotate | Line# | Navigate | Download
 1663
      void SkGpuDevice flush() {
          this->flushAndSignalSemaphores(0, nullptr);
 1665
 1666
 1667
 1668
     GrSemaphoresSubmitted SkGpuDevice::flushAndSignalSemaphores(int numSemaphores)
 1669
                                                               GrBackendSemaphore signalSemaphores[]) {
 1670
          ASSERT_SINGLE_OWNER
 1671
          return fRenderTargetContext->prepareForExternalIO(numSemaphores, signalSemaphores);
 1672
 1673
```

```
xref: /external/skia/src/gpu/GrDrawingManager.cpp
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                                                                                          Search
 326 GrSemaphoresSubmitted GrDrawingManager: prepareSurfaceForExternal10(
              GrSurfaceProxy* proxy, int numSemaphores, GrBackendSemaphore backendSemaphores[]) {
 328
          if (this->wasAbandoned()) {
              return GrSemaphoresSubmitted::kNo;
 329
 330
 331
          SkASSERT(proxy);
 332
 333
          GrSemaphoresSubmitted result = GrSemaphoresSubmitted::kNo;
          if (proxy->priy().hasPending[0() || numSemaphores) {
 334
 335
              result = this->flush(proxy, numSemaphores, backendSemaphores);
 336
 337
          if (/proxy->instantiate(fContext->contextPriv().resourceProvider())) {
 338
 339
              return result:
 340
  341
          GrGpu* gpu = fContext->contextPriv().getGpu();
          GrSurface* surface = proxy->priv().peekSurface();
 344
  345
          if (gpu && surface->asRenderTarget()) {
              |gpu->reso|veRenderTarget(surface->asRenderTarget());
              urn result:
   Search
```

```
xref: /external/skia/src/gpu/GrRenderTargetContext.cpp
Home | History | Annotate | Line# | Navigate | Download
 1382 GrSemaphoresSubmitted GrRenderTargetContext::prepareForExternal10(
              int numSemaphores, GrBackendSemaphore backendSemaphores[]) {
 1383
 1384
          ASSERT_SINGLE_OWNER
          if (this->drawingManager()->wasAbandoned()) {     return GrSemaphoresSubmitted::kNo; }
 1385
 1386
          SkDEBUGCODE(this->validate();)
          GR_CREATE_TRACE_MARKER_CONTEXT("GrRenderTargetContext", "prepareForExternal10", fContext);
 1387
 1388
          return this->drawingManager()->prepareSurfaceForExternalIO(fRenderTargetProxy.get(),
 1389
 1390
                                                                   numSemaphores,
 1391
                                                                   backendSemaphores);
 1392 }
```

```
xref: /external/skia/src/gpu/GrDrawingManager.cpp
Home | History | Annotate | Line# | Navigate | Download
                                                                                        Search
 326 GrSemaphoresSubmitted GrDrawingManager::prepareSurfaceForExternal10(
             GrSurfaceProxy* proxy, int numSemaphores, GrBackendSemaphore backendSemaphores[]) {
 327
 328
          if (this->wasAbandoned()) {
 329
              return GrSemaphoresSubmitted: kNo;
 330
 331
         Skassert(proxy);
 332
 333
         GrSemaphoresSubmitted result = GrSemaphoresSubmitted::kNo;
 334
          if (proxy->priv().hasPending+6() || numSemaphores) {
              result = this->flush(proxy, numSemaphores, backendSemaphores);
 335
 336
 337
 338
          if (!proxy=>instantiate(fContext=>contextPriv().resourceProvider())) {
 339
              return result:
 340
 341
 342
         GrGpu* gpu = fContext->contextPriv().getGpu();
 343
         GrSurface* surface = proxy->priv().peekSurface();
 344
 345
          if (gpu && surface->asRenderTarget()) {
 346
              gpu->resolveRenderTarget(surface->asRenderTarget());
 347
 348
          return result:
 349 }
```

```
me | History | Annotate | Line# | Navigate | Download | GrSemaphoresSubmitted | Flush(GrSurfaceProxy* proxy, int numSemaphores = 0, GrBackendSemaphores [] = nullptr) {

return this->internalFlush(proxy, GrResourceCache::FlushType::kExternal, numSemaphores, backendSemaphores);
}
```

\*이 다음부터 로그로 확인 못해봤습니다.

```
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96 | GrSemaphoresSubmitted | GrSurfaceProxy* | Proxy, |
97 | Ipt | numSemaphores = 0, |
98 | GrBackendSemaphore | backendSemaphores | = nullptr) {
99 | return | this->internalFlush(proxy, GrResourceCache::FlushType::kExternal, |
100 | numSemaphores, | backendSemaphores);
101 | }
```

```
xref: /external/skia/src/gpu/GrDrawingManager.cpp
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                                                                                     Search only in
 116 // MDB TODO: make use of the 'proxy' parameter.
 117 GrSemaphoresSubmitted GrDrawingManager::internalFlush(GrSurfaceProxy*,
                                                            GrResourceCache: FlushType type.
 118
  119
                                                            int numSemaphores.
                                                            GrBackendSemaphore backendSemaphores[]) {
  120
          GR_CREATE_TRACE_MARKER_CONTEXT GrDrawingManager", "internalFlush", fContext);
  121
  122
          if (fFlushing || this was Abandoned())
  123
              return GrSemaphoresSubmitted::kNo;
  124
  125
  126
          fFlushing = true;
  127
  128
          for (int i = 0; i < f0pLists.count(); ++i) {</pre>
              // Semi-usually the GrOpLists are already closed at this point, but sometimes Ganesh
  129
  130
              // needs to flush mid-draw. In that case, the SkGpuDevice's GrOpLists won't be closed
              // but need to be flushed anyway. Closing such GrOpLists here will mean new
              // GrOpLists will be created to replace them if the SkGpuDevice(s) write to them again.
  133
              fOpLists[i]->makeClosed(*fContext->caps());
  134
  135
  136 #ifdef SK_DEBUG
          // This block checks for any unnecessary splits in the opLists. If two sequential opLists
          // share the same backing GrSurfaceProxy it means the opList was artificially split.
  139
          if (fOpLists.count()) {
  140
              GrRenderTargetOpList + prevOpList = fOpLists[0]->asRenderTargetOpList();
  141
              for (int i = 1; i < fOpLists.count(); ++i) {</pre>
                  GrRenderTargetOpList* curOpList = fOpLists[i]->asRenderTargetOpList();
  142
  143
  144
                  if (prevOpList && curOpList) {
  145
                      SkASSERT(prevOpList->fTarget.get() != curOpList->fTarget.get());
  146
  147
  148
                  prevOpList = curOpList;
  149
  150
  151 #endif
  152
  153
          if (fSortRenderTargets) {
  154
              SkDEBUGCODE(bool result =) SkTTopoSort<GrOpList. GrOpList::TopoSortTraits>(&fOpLists);
  155
              SkASSERT(result);
  156
 157
  158
          GrGpu* gpu = fContext->contextPriv().getGpu();
  159
          GrOpFlushState flushState(gpu, fContext->contextPriv().resourceProvider(),
  160
  161
                                    &fTokenTracker);
```

```
117 GrSemaphoresSubmitted GrDrawingManager::internalFlush(GrSurfaceProxy*,
                                                          GrResourceCache::FlushType type,
119
                                                          int numSemaphores.
120
                                                          GrBackendSemaphore backendSemaphores[]) {
121
        GR_CREATE_TRACE_MARKER_CONTEXT("GrDrawingManager", "internalFlush", fContext);
122
123
        if (fFlushing || this->wasAbandoned()) {
124
            return GrSemaphoresSubmitted: kNo;
125
126
        fFlushing = true;
127
128
        for (int i = 0; i < f0pLists.count(); ++i) {</pre>
129
            // Semi-usually the GrOpLists are already closed at this point, but sometimes Ganesh
            // needs to flush mid-draw. In that case, the SkGpuDevice's GrOpLists won't be closed
130
131
            // but need to be flushed anyway. Closing such GrOpLists here will mean new
132
            // GrOpLists will be created to replace them if the SkGpuDevice(s) write to them again.
133
            fOpLists[i]->makeClosed(*fContext->caps());
134
135
136 #ifdef SK_DEBUG
137
        // This block checks for any unnecessary splits in the opLists. If two sequential opLists
138
        // share the same backing GrSurfaceProxy it means the opList was artificially split.
139
        if (fOpLists.count()) {
140
            GrRenderTargetOpList* prevOpList = fOpLists[0]->asRenderTargetOpList();
141
            for (int i = 1; i < fOpLists.count(); ++i) {</pre>
142
                GrRenderTargetOpList* curOpList = fOpLists[i]->asRenderTargetOpList();
143
144
                if (prevOpList && curOpList) {
145
                    SkASSERT(prevOpList->fTarget.get() != curOpList->fTarget.get());
146
147
148
                prevOpList = curOpList;
149
150
```

```
GrResourceAllocator alloc(fContext->contextPriv().resourceProvider());
for (int i = D: i < fQpLists.count(); ++i) {
    fOpLists[i]->gatherProxyIntervals(&alloc);
    alloc.markEndOfOpList(i);
}

GrResourceAllocator::AssignError error = GrMesourceAllocator::AssignError::kNoError;
while (alloc.assign(&startIndex, &stopIndex, &error)) {
    if (GrResourceAllocator::AssignError::kFailedProxyInstantiation == error) {
        for (int i = startIndex) i stopIndex; ++i) {
            fOpLists[i]->purgeOpsWithUninstantiatedProxies();
        }
    }

    if (this->executeOpLists(startIndex, stopIndex, &flushState)) {
        flushed = true;
    }
}

fOpLists.reset();

GrSemaphoresSubmitted result = gpu->finishFlush(numSemaphores, backendSemaphores);

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//
```

xref: /external/skia/src/gpu/GrDrawingManager.cpp

```
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                                                                                            Search Only in GrDra
244
245
246 )
         return result:
 247
 248 bool GrDrawingManager::executeOpLists(int startIndex, int stopIndex, GrOpFlushState* flushState) {
         SkASSERT(startIndex <= TopIndex && stopIndex <= f0pLists.count());
 250
          GrResourceProvider * resourceProvider = fContext->contextPriv(), resourceProvider();
 251
252
253
254
255
256
257
258
259
         bool anyOpListsExecuted = false:
         for (int i = startIndex; i < stopIndex; ++i) {</pre>
              if (!f0pLists[i]) {
                   continue;
              if (resourceProvider=>explicitlyAllocateGPUResources()) {
                  if (!f0pLists[i]->isInstantiated()) {
                      // If the backing surface wasn't allocated drop the draw of the entire opList.
 262
263
264
                      fOpLists[i] = nullptr;
                      continue;
 265
266
             } else {
                  if (!fOpLists[i]->instantiate(resourceProvider)) {
 267
                      SkDebugf("OpList failed to instantiate.\m");
 268
                      fOpLists[i] = nullptr;
 269
270
                      continue;
 271
 272
 273
              // TODO: handle this instantiation via lazy surface proxies?
 274
              // Instantiate all deferred proxies (being built on worker threads) so we can upload them
 275
              f0pLists[i]=>instantiateDeferredProxies(fContext=>contextPriv(),resourceProvider());
 276
              f0pLists[i]->prepare(flushState);
 277
 278
 279
         // Upload all data to the GPU
 280
          flushState->preExecuteDraws();
 281
282
         // Execute the onFlush op lists first, if any.
 283
          for (sk_sp<GrOpList>& onFlushOpList : f0nFlushCBOpLists) {
 284
              if (!onFlushOpList=>execute(flushState)) {
 285
                  SkDebugf("WARNING: onFlushOpList failed to execute.\"n");
 286
 287
              SkASSERT(onFlushOpList->unique());
 288
              onFlushOpList = nullptr;
```

#### xref: /external/skia/src/gpu/GrDrawingManager.cpp

```
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 245
246 }
           return result;
  247
 248
249
       bool GrDrawingManager::executeOpLists(int startIndex, int stopIndex, GrOpFlushState* flushState) {
           SkASSERT(startIndex <= stopIndex && stopIndex <= f0pLists.count());</pre>
 250
 251
252
253
           GrResourceProvider* resourceProvider = fContext->contextPriv().resourceProvider();
           bool anyOpListsExecuted = false;
 254
255
256
257
258
259
260
           for (int i = startIndex; i < stopIndex; ++i) {</pre>
                if (!f0pLists[i]) {
                      continue;
                if (resourceProvider->explicitlyAllocateGPUResources()) {
                     if (!f0pLists[i]->isInstantiated()) {
  261
                         // If the backing surface wasn't allocated drop the draw of the entire opList.
  262
                         fOpLists[i] = nullptr;
 263
                         continue;
  264
  265
                } else {
  266
                     if (!f0pLists[i]=>instantiate(resourceProvider)) {
                         SkDebugf("OpList failed to instantiate.\"n");
  267
 268
                         fOpLists[i] = nullptr;
  269
                         continue;
 270
 271
272
 273
274
                // TODO: handle this instantiation via lazy surface proxies?
                // Instantiate all deferred proxies (being built on worker threads) so we can upload them fOpLists[i]->instantiateDeferredProxies(fContext->contextPriv().resourceProvider());
 275
 276
277
                f0pLists[i]->prepare(flushState);
 278
  279
           // Upload all data to the GPU
 280
           flushState->preExecuteDraws();
  281
 282
           // Execute the onFlush op lists first, if any.
for (sk_sp<GrOpList>& onFlushOpList : fOnFlushCBOpLists) {
   if (!onFlushOpList->execute(flushState)) {
 283
284
  285
                     SkDebugf("WARNING: onFlushOpList failed to execute.\"n");
  286
 287
                SkASSERT(onFlushOpList=>unique());
                onFlushOpList = nullptr;
```

#### xref: /external/skia/include/private/GrOpList.h

# Home | History | Annotate | Line# | Navigate | Download | Searcl // These four methods are invoked at flush time bool instantiate(GrResourceProvider\* resourceProvider); // Instantiates any "threaded" texture proxies that are being prepared elsewhere void instantiateDeferredProxies(GrResourceProvider\* resourceProvider); void prepare(GrOpFlushState\* flushState); bool execute(GrOpFlushState\* flushState) { return this=>onExecute(flushState); }

#### xref: /external/skia/include/private/GrOpList.h

```
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// These four methods are invoked at flush time |
bool instantiate(GrResourceProvider* resourceProvider);

// Instantiates any "threaded" texture proxies that are being prepared elsewhere |
void instantiateDeferredProxies(GrResourceProvider* resourceProvider);

void prepare(GrOpFlushState* flushState);
bool execute(GrOpFlushState* flushState) { return this->onExecute(flushState); }
```

```
xref: /external/skgp/src/gpu/GrRenderTargetOpList.cpp
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                                                                                      Search on
  134 // Ops and instantiate them here.
  if (0 == fRecordedOps count() && GrLoadOp::kClear != fColorLoadOp) {
  137
              return false/
  138
  139
  140
          SkASSERT(/flarget.get()->priv().peekRenderTarget());
  141 #ifdef Sk_BUILD_FOR_ANDROID_FRAMEWORK
          TRACE_EVENTO("skia", TRACE_FUNC);
  143 #endi f
  144
          // TODO: at the very least, we want the stencil store op to always be discard (at this
          // level). In Yulkan, sub-command buffers would still need to load & store the stencil buffer.
  147
          std::unique_ptr<GrGpuRTCommandBuffer> commandBuffer = create_command_buffer(
  148
                                                       flushState->gpu(),
  149
                                                       fTarget.get()->priv().peekRenderTarget().
  150
                                                       fTarget.get()->origin(),
  151
                                                       fColorLoadOp, fLoadClearColor,
  152
                                                       fStencilLoad0p);
  153
          flushState->setCommandBuffer(commandBuffer.get());
  154
          commandBuffer->begin();
  155
  156
          // Draw all the generated geometry.
  157
          for (int i = 0; i < fRecordedOps.count(); ++i) {</pre>
  158
              if (!fRecordedOps[i].fOp) {
  159
                  continue:
  160
      #ifdef SK_BUILD_FOR_ANDROID_FRAMEWORK
  162
              TRACE_EVENTO("skia", fRecordedOps[i],fOp->name());
  163 #endif
  164
  165
             GrOpFlushState::OpArgs opArgs {
                  fRecordedOps[i].fOp.get().
  166
                 fTarget.get()->asRenderTargetProxy(),
  167
  168
                 fRecordedOps[i].fAppliedClip.
                 fRecordedOps[i].fDstProxy
  169
  170
             };
  171
  172
              flushState->setOpArgs(&opArgs);
  173
              fRecordedOps[i].fOp->execute(flushState);
  174
             flushState->setOpArgs(nullptr);
  175
  176
  177
          finish_command_buffer(commandBuffer.get());
          flushState->setCommandBuffer(nullptr);
  178
  179
  180
          return true:
```

```
xref: /external/skgp/src/gpu/GrRenderTargetOpList.cpp
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                                                                                          Search Or
  134 // Ops and instantiate them here.
  135 bool GrRenderTargetOpList::onExecute(GrOpFlushState* flushState) {
          if (0 == fRecordedOps.count() && GrLoadOp::kClear != fColorLoadOp) {
  136
  137
              return false:
  138
  139
  140
          SkASSERT(fTarget.get()->priv().peekRenderTarget());
      #ifdef SK_BUILD_FOR_ANDROID_FRAMEWORK
          TRACE EVENTO("skia", TRACE FUNC);
  143 #endif
  144
  145
          // TODO: at the very least, we want the stencil store op to always be discard (at this
  146
          // level). In Vulkan, sub-command buffers would still need to load & store the stencil buffer.
          std::unique_ptr<GrGpuRTCommandBuffer> commandBuffer = create_command_buffer(
  147
  148
                                                          flushState->gpu().
  149
                                                         fTarget.get()->priv().peekRenderTarget().
                                                         fTarget.get()->origin().
  150
  151
                                                          fColorLoadOp, fLoadClearColor,
  152
                                                          fStencilLoadOp):
  153
          flushState->setCommandBuffer(commandBuffer.get());
  154
          commandBuffer->begin();
  155
  156
          // Draw all the generated geometry.
  157
          for (int i = 0; i < fRecordedOps.count(); ++i) {</pre>
  158
              if (!fRecordedOps[i].fOp) {
  159
                  continue:
  160
  161
      #ifdef SK_BUILD_FOR_ANDROID_FRAMEWORK
  162
              TRACE_EVENTO("skia", fRecordedOps[i].f0p->name());
  163 #endi f
  164
  165
              GrOpFlushState: OpArgs opArgs {
  166
                  fRecordedOps[i].fOp.get().
                  fTarget.get()->asRenderTargetProxy().
  167
                  fRecordedOps[i].fAppliedClip,
                  fRecordedOps[i].fDstProxy
  170
              };
  171
               flushState->setOpArgs(&opArgs)/
  172
               fRecordedOps[i].fOp->execute(flushState);
  173
  174
               flushState->setOpArgs(nullptr);
  175
  176
  177
          finish command buffer(commandBuffer.get());
  178
          flushState->setCommandBuffer(nullptr);
  179
  180
          return true:
```

```
xref: /external/skqp/src/gpu/GrRenderTargetOpList.cpp

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122
123
124
125
126
127
128
buffer->end();
129
130
}

xref: /external/skqp/src/gpu/GrRenderTargetOpList.cpp

Salaric inline void finish_command_buffer(GrGpuRTCommandBuffer* buffer) {
    return;
    return;
    }
    buffer->end();
    buffer->submit();
    130
}
```

```
xref: /external/skqp/src/gpu/GrRenderTargetOpList.cpp

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122
123
124
125
125
126
127
128
    buffer->end();
129
    buffer->submit();
130
}
```