

【ARGUSAPM性能监控平台介绍&SDK开源】

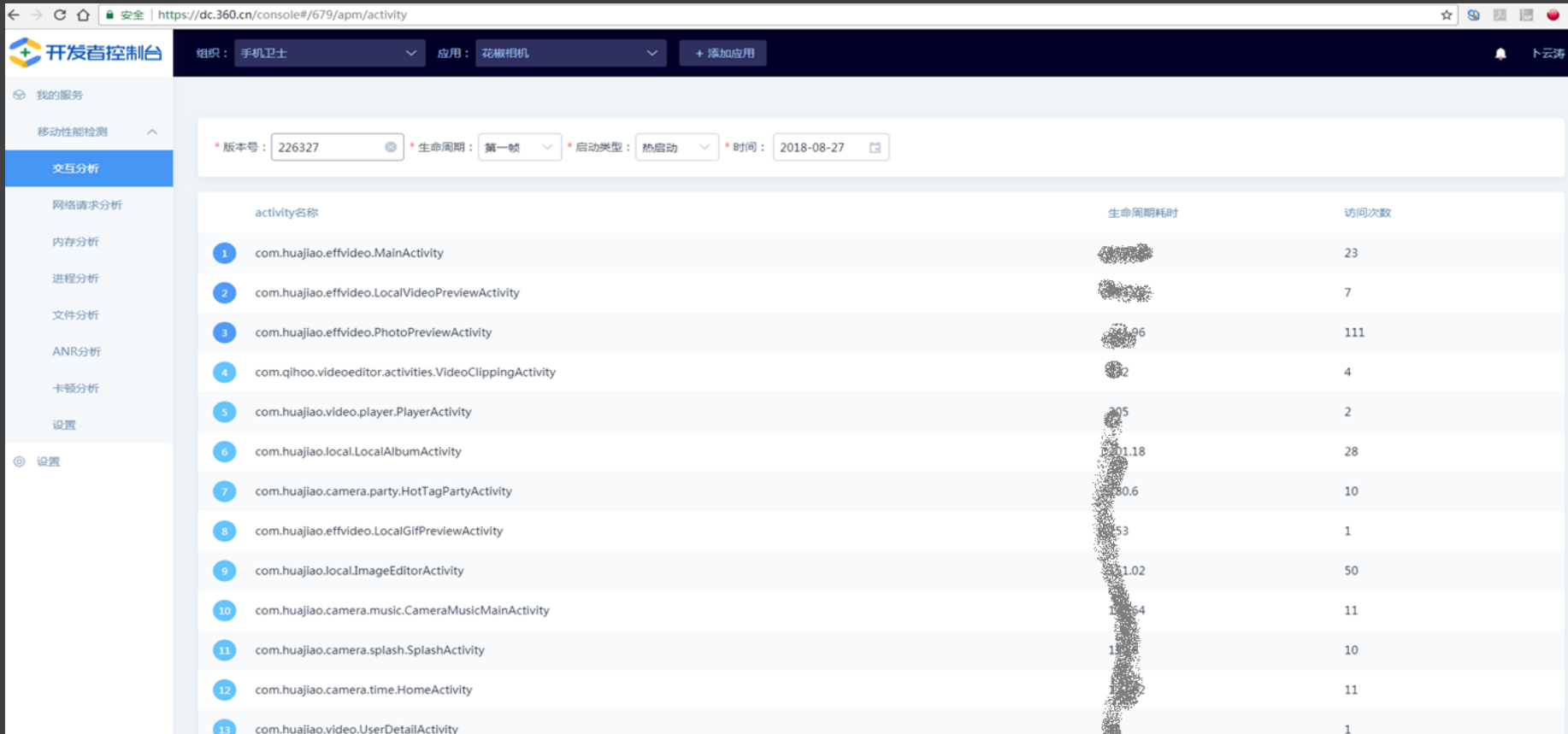
卜云涛 2018.12



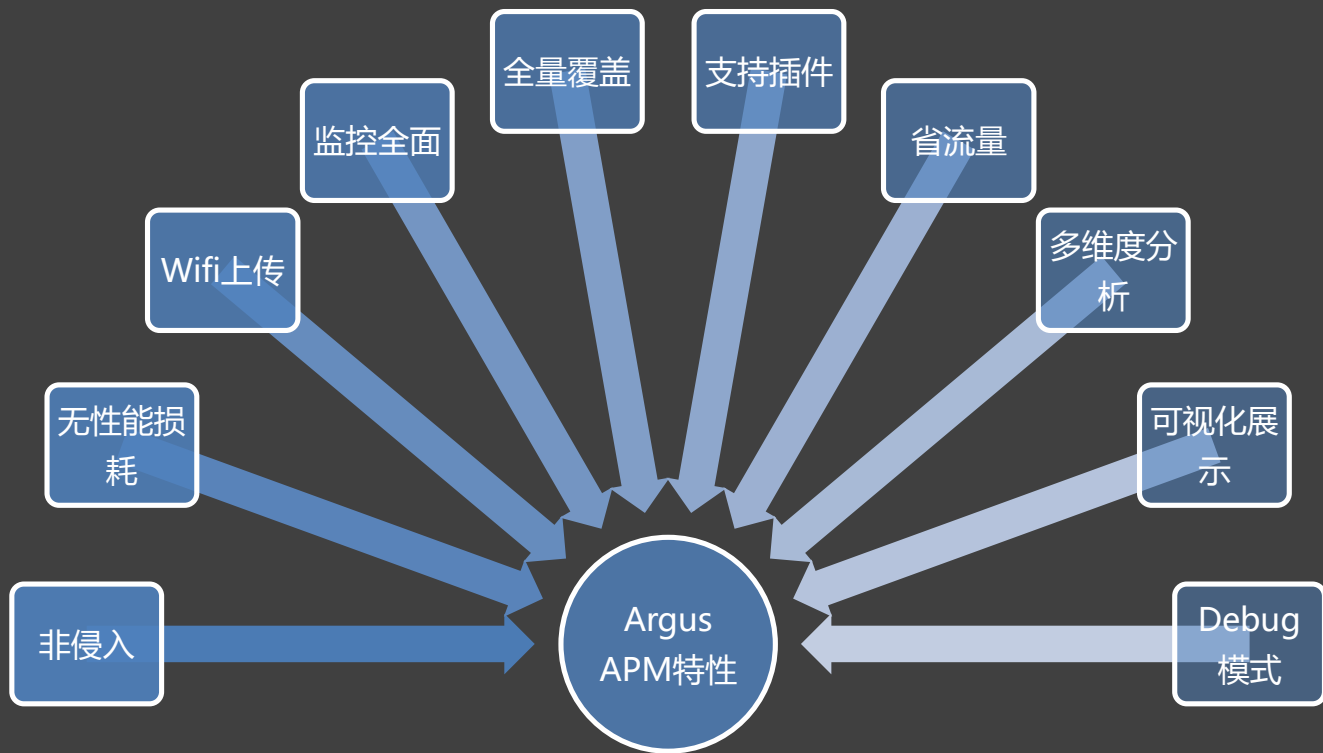
手卫性能保障流程



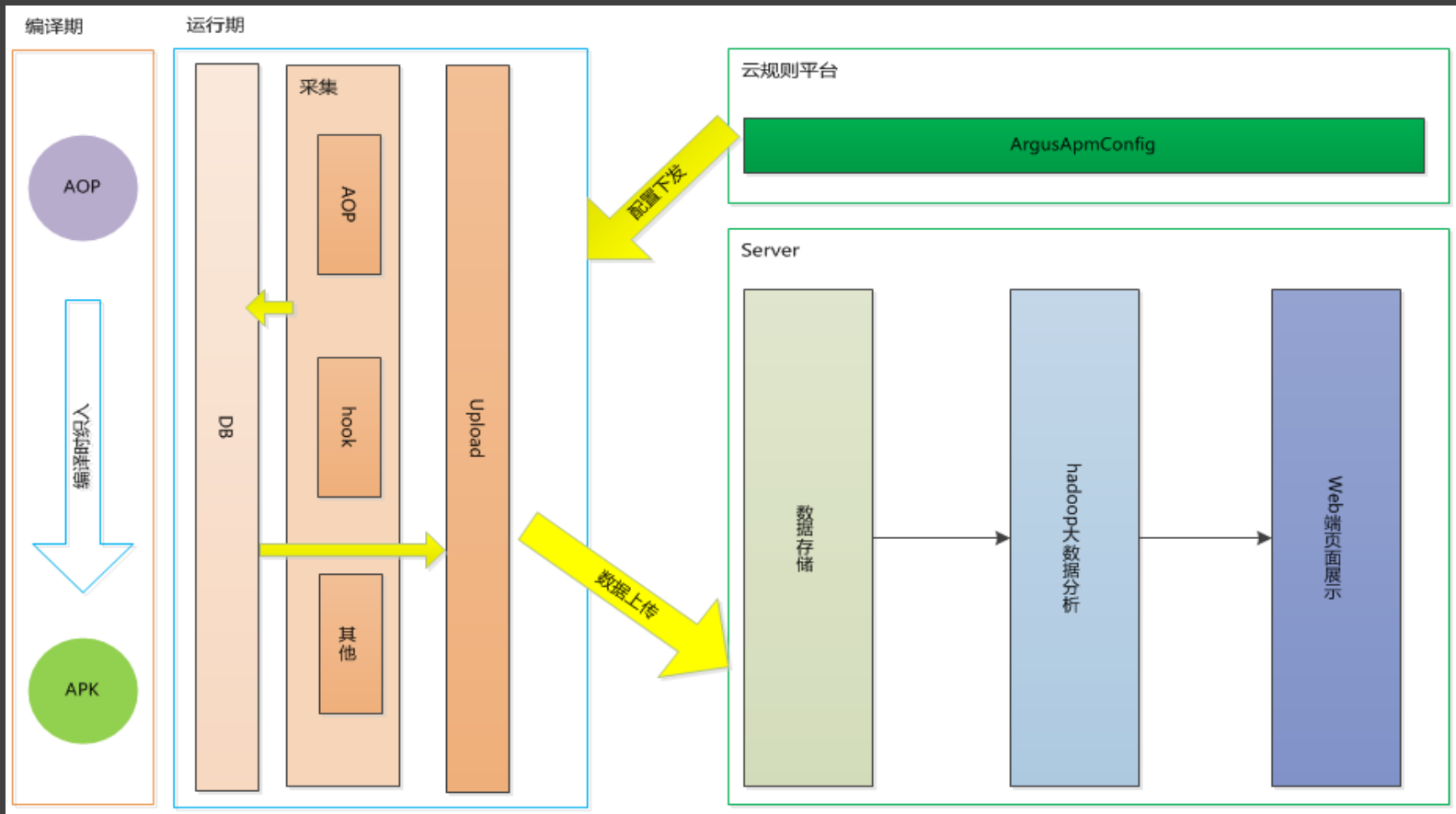
ArgusAPM性能监控平台 (DC平台)



ArgusAPM特性



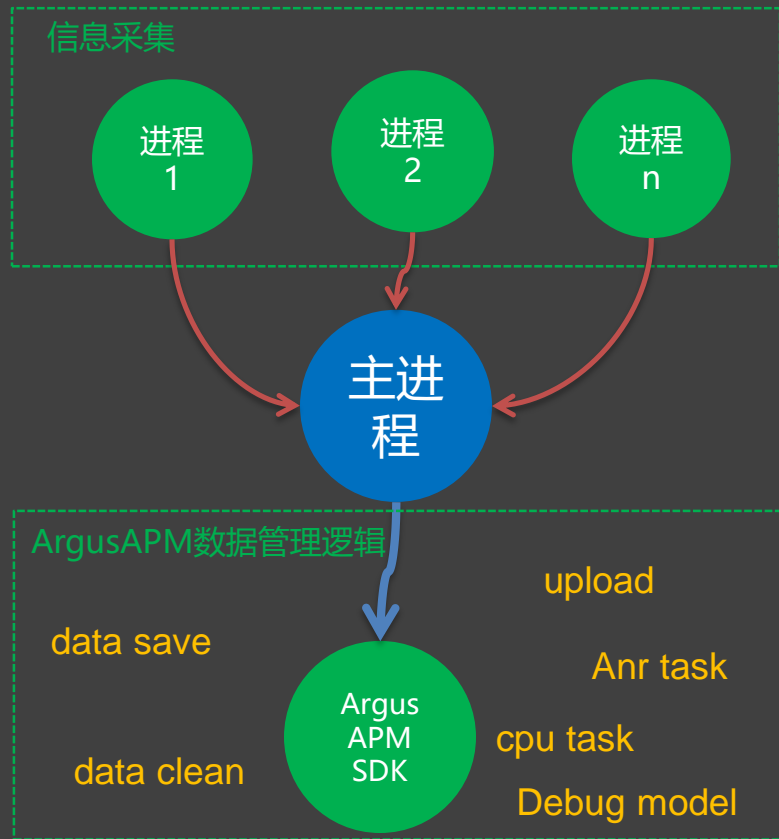
ArgusAPM整体设计



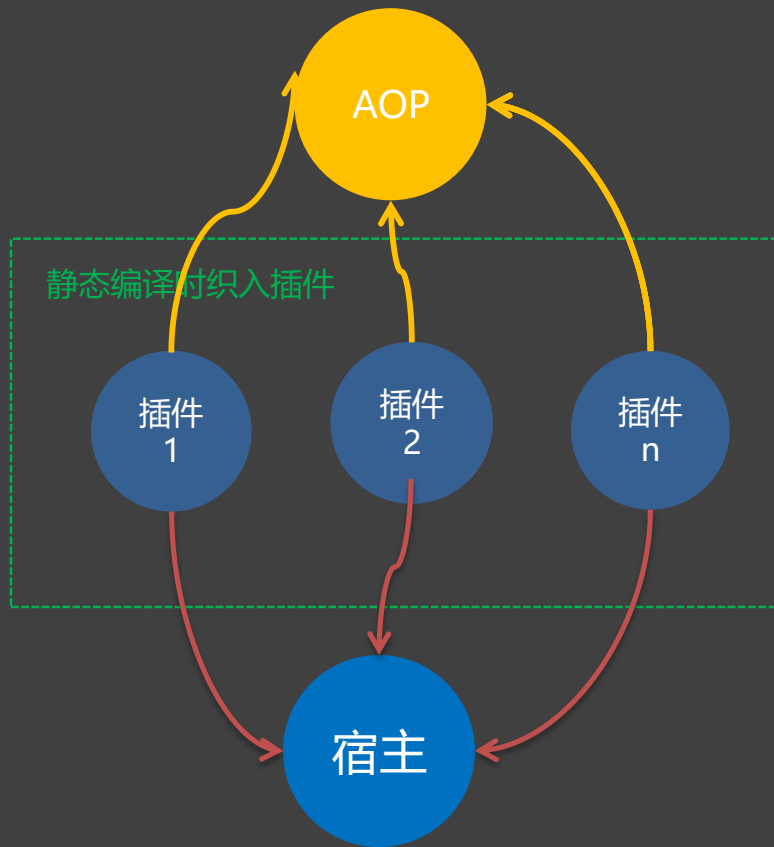
ArgusAPM框架设计



ArgusAPM多进程、插件化处理



多进程处理



插件化处理

性能采集实现方案示例——AOP



网络模块aop切入

```
pointcut URLOpenConnectionOne(URL url) :  
    call(URLConnection openConnection()) && target(url) && baseCondition();  
  
URLConnection around(URL url) throws IOException : URLOpenConnectionOne(url) {  
    return QURL.openConnection(url);  
}
```

```
pointcut httpClientExecuteOne(HttpClient httpClient, HttpRequest request) :  
    call(HttpResponse HttpClient.execute(HttpRequest)) && target(httpClient) &&  
  
HttpResponse around(HttpClient httpClient, HttpRequest request) throws IOExcept  
    return QHC.execute(httpClient, request);  
}
```


性能采集实现方案示例——HOOK



Activity性能采集

```
@Override
public void callActivityOnCreate(Activity activity, Bundle icle) {
    if (!isActivityTaskRunning()) {
        //系统原有逻辑
        return;
    }
    long startTime = System.currentTimeMillis();
    super.callActivityOnCreate(activity, icle);
    //apm打点逻辑
}
```

性能采集实现方案示例——其他



卡顿检测

```
public void start() {
    super.start();
    if (!mBlockThread.isAlive()){ //防止多次调用
        mBlockThread.start();
        mHandler = new Handler(mBlockThread.getLooper());
        Looper.getMainLooper().setMessageLogging(new Printer() {

            private static final String START = ">>>>> Dispatching";
            private static final String END = "<<<<< Finished";

            @Override
            public void println(String x) {
                if (x.startsWith(START)) {
                    startMonitor();
                }
                if (x.startsWith(END)) {
                    removeMonitor();
                }
            }
        });
    }
}
```

DC平台介绍



ArgusAPM性能监控平台包含：云规则平台（ArgusAPM配置文件）、客户端SDK（ArgusAPM SDK）、数据存储服务器、大数据分析、DC平台等几个部分。

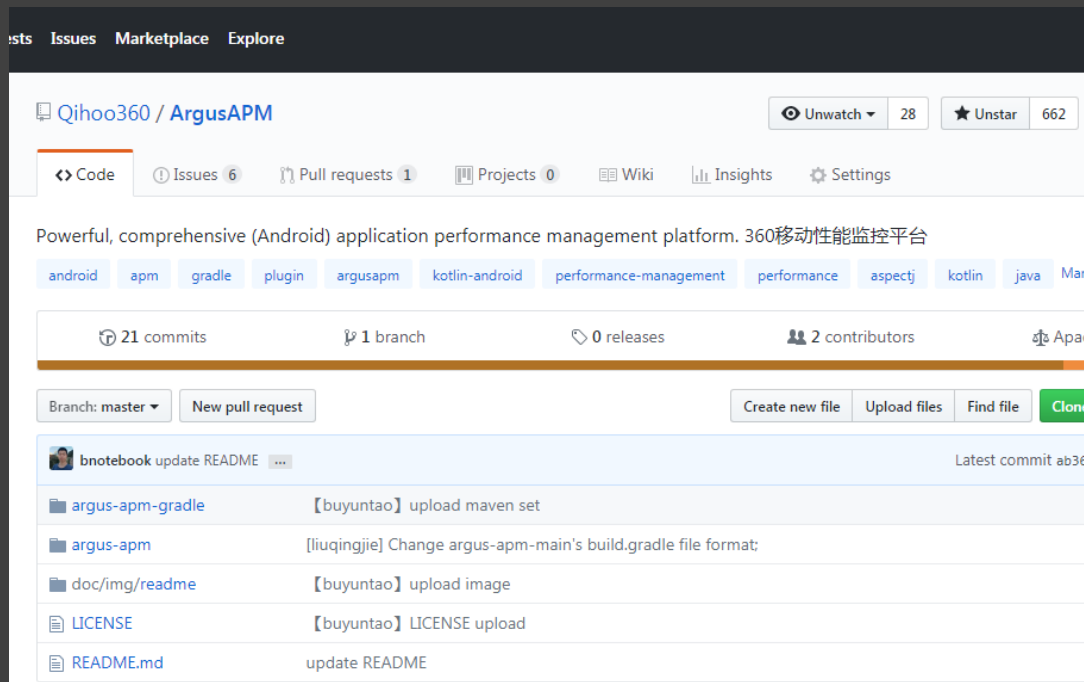
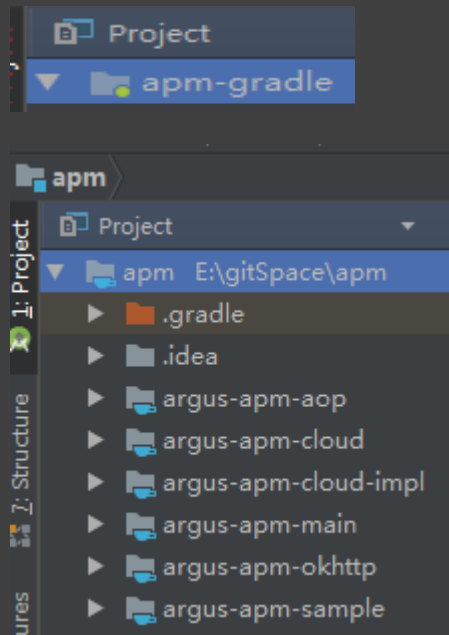
DC平台：ArgusAPM性能数据的web端展示端。

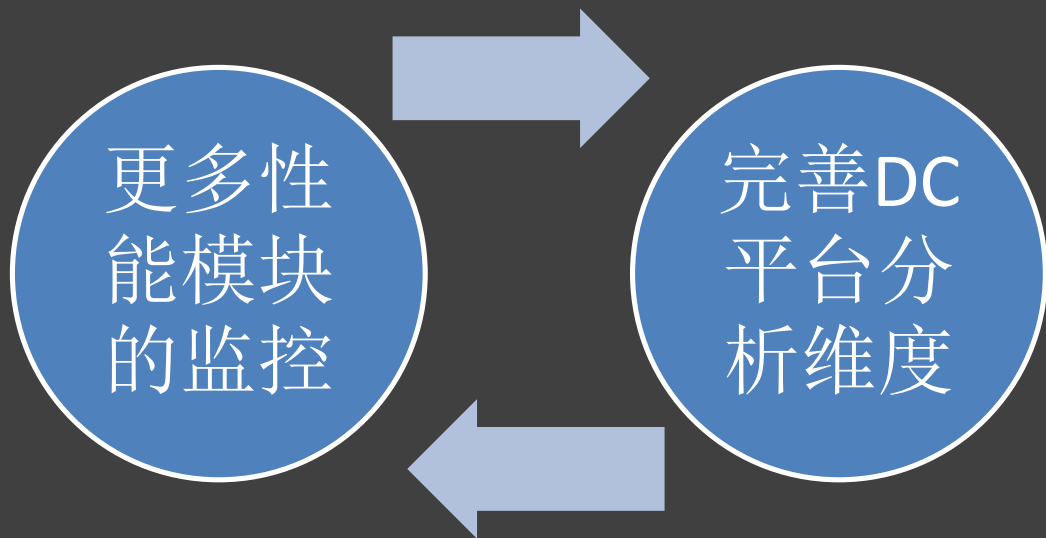


ArgusAPM SDK开源代码介绍



客户端SDK (ArgusAPM SDK) , ArgusAPM SDK包含了APP静态编译阶段的代码织入 (AOP织入) , APP运行期的性能数据采集、上传等核心逻辑。涉及APP编译阶段和开发阶段, 是整个ArgusAPM性能监控平台的核心部分。





谢谢

卜云涛



奇卓社
(360移动技术)



360技术