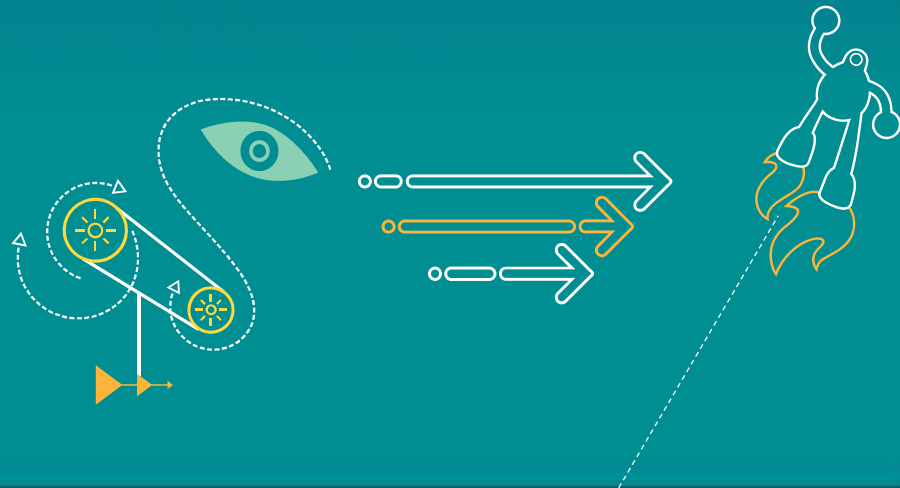

高通用户体验性能优化期刊



Qualcomm Technologies, Inc.

Confidential and Proprietary – Qualcomm Technologies, Inc.

机密和专有信息——高通技术股份有限公司



Confidential and Proprietary – Qualcomm Technologies, Inc.

Confidential and Proprietary – Qualcomm Technologies, Inc.

NO PUBLIC DISCLOSURE PERMITTED: Please report postings of this document on public servers or web sites to: DocCtrlAgent@qualcomm.com. **禁止公开：**如在公共服务器或网站上发现本文档，请报告至：DocCtrlAgent@qualcomm.com.

Restricted Distribution: Not to be distributed to anyone who is not an employee of either Qualcomm or its affiliated without the express approval of Qualcomm's Configuration Management. **限制分发：**未经高通配置管理部门的明示批准，不得发布给任何非高通或高通附属及关联公司员工的人。 Not to be used, copied, reproduced, or modified in whole or in part, nor its contents revealed in any manner to others without the express written permission of Qualcomm Technologies, Inc. 未经高通技术股份有限公司明示的书面允许，不得使用、复印、复制、或修改全部或部分文档，不得以任何形式向他人透露其内容。

The user of this documentation acknowledges and agrees that any Chinese text and/or translation herein shall be for reference purposes only and that in the event of any conflict between the English text and/or version and the Chinese text and/or version, the English text and/or version shall be controlling. 本文档的用户知悉并同意中文文本和/或翻译仅供参考之目的，如英文文本和/或版本和中文文本和/或版本之间存在冲突，以英文文本和/或版本为准。

This document contains confidential and proprietary information and must be shredded when discarded. 未经高通明示的书面允许，不得使用、复印、复制全部或部分文档，不得以任何形式向他人透露其内容。本文档含有高通机密和专有信息，丢弃时必须粉碎销毁。

Qualcomm reserves the right to make changes to the product(s) or information contained herein without notice. No liability is assumed for any damages arising directly or indirectly by their use or application. The information provided in this document is provided on an "as is" basis. 高通保留未经通知即修改本文档中提及的产品或信息的权利。本公司对使用或应用本文档所产生的直接或间接损失概不负责。本文档中的信息为基于现状所提供，使用风险由用户自行承担。

Qualcomm is a trademark of QUALCOMM Incorporated, registered in the United States and other countries. All QUALCOMM Incorporated trademarks are used with permission. Other product and brand names may be trademarks or registered trademarks of their respective owners. Qualcomm是高通公司在美国及其它国家注册的商标。所有高通公司的商标皆获得使用许可。其它产品和品牌名称可能为其各自所有者的商标或注册商标。

This technical data may be subject to U.S. and international export, re-export, or transfer ("export") laws. Diversion contrary to U.S. and international law is strictly prohibited. 本文档及所含技术资料可能受美国和国际出口、再出口或转移出口法律的 限制。严禁违反或偏离美国和国际的相关法律。

Qualcomm Technologies, Inc. 5775 Morehouse Drive San Diego, CA 92121 U.S.A.

高通技术股份有限公司，美国加利福尼亚州圣地亚哥市莫豪斯路 5775 号，邮编 92121

Contents

- UX Performance KBA
- System Performance KBA
- Debugging Tools, Debugging Methods KBA
- Documentation Updates

UX Performance KBA

Performance Tuning KBA list

Target	KBA	Title
All	KBA-160720223639	Bootanimation FPS optimization
All	KBA-160919232945	How to debug boot time performance issue
All	KBA-161122000928	1st boot become longer after OTA

System Performance KBA

System Performance KBA

Targets	KBA	Title
All	KBA-160726183346	How to debug IO performance issue
All	KBA-161003054532	display underrun issue debug guide
All	KBA-161002045417	device wakeup time analysis and breakdown
Android M	KBA-161020010256	MALLOC_IMPL配置
All	KBA-161112021800	kernel config sanity check

Debugging Tools, Debugging Methods KBA

Debugging Tools, Debugging Methods KBA

Targets	KBA	Title
All	KBA-160724222150	How to disable QCOM skia and ART optimization
All	KBA-160803171155	How to collect offline systrace
All	KBA-161001235906	Systrace tips
All	KBA-161023190436	Linker debug tips
All	KBA-161122014243	How to add systrace in java and native code
All	KBA-161123204012	common performance issue and debug
All	KBA-161027185718	bootchart usage
All	KBA-161112022251	method to capture device boot up ftrace logs

Documentation Updates

Documentation Updates

DCN	Rev	Title	Summary
80-P3936-2	A	PERFORMANCE IMPROVEMENT PATCHES FOR ANDROID NOUGAT BUILDS	Performance patch list for Android N
80-NV303-1	H	MEMORY OPTIMIZATION GUIDELINES	Update with Android N memory change