XRADIO PING Developer Guide

Revision 1.0

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Revision History

Version	Date	Summary of Changes
1.0	2019-10-22	Initial Version

Contents

1 模块概要

1.1 功能介绍

Ping 工具通常用来测试与目标主机的连通性，它通过发送 ICMP ECHO_REQUEST 数据包到网络主机（send ICMP ECHO_REQUEST to network hosts），并显示响应情况，这样我们就可以根据它输出的信息来确定目标主机是否可访问。有些服务器为了防止通过 ping 探测到，通过防火墙设置了禁止 ping 或者在内核参数中禁止 ping，这样就不能通过 ping 确定该主机是否还处于开启状态。

1.2 代码位置

模块	文件类型	位置
PING	source	sdk/src/net/ping/ping.c
	header	sdk/include/net/ping/ping.h

2 模块接口

s32_t ping(struct ping_data *data)		备注
功能	测试与目标主机的连通性。	
参数	sin_addr：ping 的地址 count：ping 的次数 data_long：ping 包的数据长度	
返回值	大于 0：成功，其他（0 或-1）：失败	

3 模块接口例程

本节提供上节介绍接口的示例，描述接口的使用方法及流程，文中代码皆为参考代码，不能直接运行，运行代码可直接参考 sdk 中源码文件 cmd_ping.c。

第一步：初始化参数

```
data.sin_addr.addr = inet_addr("192.168.1.1");
data.count = 3;
```

第二步： 调用 ping。

```
ping(data);
```

4 其他配置

1. 配置单次 ping 的最长等待时间

```
文件：sdk/src/net/ping/ping.c
#define PING_TO          5000
```

2. 配置 ping 包的数据长度

```
文件：sdk/src/net/ping/ping.c
#define PING_DATA_SIZE      100
```