

Crashinfo 파일에서 정보 캡처

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소개

이 문서에서는 crashinfo 파일의 정의, 포함 내용 및 파일에서 정보를 검색하는 방법에 대해 설명합니다.

사전 요구 사항

요구 사항

이 문서에 대한 특정 요건이 없습니다.

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- Cisco 1700, 3600, 7000, 7200, 7500 및 12000 Series 라우터
- Cisco IOS® Software 릴리스 11.1 이상

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우 모든 명령의 잠재적인 영향을 미리 숙지하시기 바랍니다. 모든 명령의 잠재적 영향을 이해합니다.

표기 규칙

문서 규칙에 대한 자세한 내용은 Cisco 기술 팁 표기 규칙을 참고하십시오.

배경 정보

crashinfo 파일은 부트 플래시 또는 플래시 메모리에 저장된 현재 충돌과 관련된 유용한 정보의 모음입니다.

데이터 또는 스택 손상으로 인해 라우터가 충돌할 경우 이 유형의 충돌을 디버깅하는 데 일반적인 출력보다 더 많은 다시 로드 정보가 필요합니다 `show stacks` 명령을 실행합니다.

다시 로드 정보는 기본적으로 Cisco 12000 GRP(Gigabit Router Processor), Cisco 7000 및 7500 RSP(Route Switch Processor) 및 Cisco 7200 Series Router의 bootflash:crashinfo에 기록됩니다.

Cisco 7500 VIP2(Versatile Interface Processor 2)의 경우 이 파일은 bootflash:vip2_slot_no_crashinfo에 기본적으로 저장되며 slot_no는 VIP2 슬롯 번호입니다.

Cisco 7000 RP(Route Processor)의 경우 파일은 기본적으로 flash:crashinfo에 저장됩니다.

기본 crashinfo 파일의 생성은 다음 Cisco IOS 소프트웨어 릴리스에서 처음 도입되었습니다.

- RSP 및 RP의 경우
 - 11.1(13)CA1
 - 11.1(19)CC
 - 11.2(10)P
 - 11.3(1)
 - 11.3조 1항
- Cisco 7200의 경우:
 - 11.1(18)CA
 - 11.2(15)P
 - 11.3(6)
 - 11.3(6)AA
 - 11.3(6)NA
 - 11.3조6항
- Cisco 12000 GRP:
 - 11.2(11)GS2.1
 - 11.2(9)GS7.2
 - 11.2(14)GS2.5

crashinfo 수집 메커니즘은 Cisco IOS Software 릴리스 12.0, 12.1 및 12.2에서 다음 플랫폼에 사용할 수 있습니다.

- Cisco 1700의 경우:
 - 12.1(2)
 - 12.1(2)T
 - 12.2(1)
- Cisco 2600의 경우:
 - 12.1(13)
 - 12.2조 7항
 - 12.2(7)
- Cisco 3600의 경우:
 - 12.2.(12)다
 - 12.2조(11)T
 - 12.2(11)

Crashinfo 파일의 내용

crashinfo 파일에는 다음 정보가 포함되어 있습니다.

- 제한된 오류 메시지(로그) 및 명령 기록
- 충돌 시 실행 중인 이미지에 대한 설명
- 맞춤 표시
- malloc 및 free traces
- 공정 레벨 스택 추적
- 프로세스 레벨 컨텍스트
- 프로세스 레벨 스택 덤프
- 인터럽트 레벨 스택 덤프
- 프로세스 레벨 정보
- 프로세스 레벨 레지스터 메모리 덤프

Crashinfo 파일에서 정보 검색

부트 플래시에서 crashinfo를 사용할 수 있으면 이 정보가 `show stack` 명령 출력:

```
*****
***** Information of Last System Crash *****
*****

Using bootflash:crashinfo_20000323-061850. 2000
CMD: 'sh int fas' 03:23:41 UTC Thu Mar 2 2000
CMD: 'sh int fastEthernet 6/0/0' 03:23:44 UTC Thu Mar 2 2000
CMD: 'conf t' 03:23:56 UTC Thu Mar 2 2000
CMD: 'no ip cef di' 03:23:58 UTC Thu Mar 2 2000
CMD: 'no ip cef distributed ' 03:23:58 UTC Thu Mar 2 2000
...
```

crashinfo 파일을 검색하려면 다음 명령을 실행합니다.

```
<#root>
```

```
Router#
```

```
dir bootflash:
```

```
Directory of bootflash:/
```

1	-rw-	4088008	Oct 07 1999 04:51:29	rsp-boot-mz.120-6.6
2	-rw-	178619	Mar 23 2000 06:18:50	crashinfo_20000323-061850

```
7602176 bytes total (3335292 bytes free)
```

```
Router#
```

```
Router#
```

```
more bootflash:crashinfo_20000323-061850
```

```
2000
```

```
CMD: 'sh int fas' 03:23:41 UTC Thu Mar 2 2000
CMD: 'sh int fastEthernet 6/0/0' 03:23:44 UTC Thu Mar 2 2000
CMD: 'conf t' 03:23:56 UTC Thu Mar 2 2000
CMD: 'no ip cef DI 03:23:58 UTC Thu Mar 2 2000
CMD: 'no ip cef distributed ' 03:23:58 UTC Thu Mar 2 2000
CMD: 'ip cef' 03:24:01 UTC Thu Mar 2 2000
...
```

Crashinfo 파일을 TFTP 서버에 복사

crashinfo 파일을 TFTP(Trivial File Transfer Protocol) 서버에 복사하려면 다음 명령을 실행합니다.

```
<#root>
```

Router#

dir bootflash:

```
1 -rw- 4088008 Oct 07 1999 04:51:29 rsp-boot-mz.120-6.6
2 -rw- 178619 Mar 23 2000 06:18:50 crashinfo_20000323-061850
```

Router#copy bootflash:crashinfo_20000323-061850 tftp

Address or name of remote host []? 10.1.1.1

Destination filename [crashinfo_20000323-061850]?

!!

보조 RSP가 crash한 경우 slavebootflash에서 를 확인합니다. Cisco 12000 GSR의 경우 sec-bootflash:를 참조하십시오. 부트 플래시에 사용 가능한 공간이 충분한지 확인합니다. dir bootflash: 명령을 실행합니다. 사용 가능한 공간을 만들기 위해 이전 crashinfo 파일을 삭제하려면 delete bootflash:filename 명령을 실행합니다. 이 delete bootflash:filename 이 명령은 파일을 삭제된 것으로 표시하지만 파일은 여전히 물리적으로 메모리에 있으며 복원할 수 있습니다. 메모리에서 물리적으로 삭제하려면 squeeze bootflash: 명령을 실행합니다.

라우터가 여러 번 충돌한 경우 crashinfo 파일은 마지막으로 볼 수 있는 파일만 스택킹할 수 있습니다. 예를 들면 다음과 같습니다.

<#root>

Router#

dir /all bootflash:

```
-- ED --type-- --crc--- -seek-- nlen -length- -----date/time----- name
1 .. unknown FD38E5C7 3FD81C 25 3921820 Oct 02 1998 14:43:56
rsp-boot-mz.112-15a.P.bin
2 .D config AF12EF9F 41C308 9 125547 Oct 16 1998 11:10:10 crashinfo
3 .. config 33DEAF65 43A950 9 124360 Oct 16 1998 11:15:50 crashinfo
```

3430064 bytes available (4172112 bytes used)

하나의 파일이 삭제되고 하나의 파일을 볼 수 있다는 점에 유의하십시오.

<#root>

Router#

show file bootflash:crashinfo

Compliance with U.S. Export Laws and Regulations - Encryption

This product performs encryption and is regulated for export by the US Government.

..... file continues here....

Router#

dir /all bootflash:

```
--#- ED --type-- --crc--- -seek-- nlen -length- -----date/time----- name
1  .. unknown FD38E5C7 3FD81C 25 3921820 Oct 02 1998 14:43:56
rsp-boot-mz.112-15a.P.bin
2  .D config AF12EF9F 41C308 9 125547 Oct 16 1998 11:10:10 crashinfo
3  .. config 33DEAF65 43A950 9 124360 Oct 16 1998 11:15:50 crashinfo
```

3430064 bytes available (4172112 bytes used)

방금 보았던 파일을 삭제합니다.

<#root>

Router#

delete bootflash:crashinfo

Router#

dir /all bootflash:

```
--#- ED --type-- --crc--- -seek-- nlen -length- -----date/time----- name
1  .. unknown FD38E5C7 3FD81C 25 3921820 Oct 02 1998 14:43:56
rsp-boot-mz.112-15a.P.bin
2  .D config AF12EF9F 41C308 9 125547 Oct 16 1998 11:10:10 crashinfo
3  .D config 33DEAF65 43A950 9 124360 Oct 16 1998 11:15:50 crashinfo
```

3430064 bytes available (4172112 bytes used)

이전 파일을 복원합니다.

<#root>

Router#

undelete ?

<0-700000> File index

Router#

undelete 2

File undelete error (file not found)

Router#

undelete 2 ?

WORD Device name

Router#

undelete 2 bootflash:

Router#

dir /all bootflash:

```

-#- ED --type-- --crc--- -seek-- nlen -length- -----date/time----- name
1  .. unknown FD38E5C7 3FD81C 25 3921820 Oct 02 1998 14:43:56
   rsp-boot-mz.112-15a.P.bin
2  .. config AF12EF9F 41C308 9 125547 Oct 16 1998 11:10:10 crashinfo
3  .D config 33DEAF65 43A950 9 124360 Oct 16 1998 11:15:50 crashinfo

```

3430064 bytes available (4172112 bytes used)

이전 파일을 `show file bootflash:crashinfo` 명령을 실행합니다. 이전 충돌을 검토하려면 이 절차를 반복합니다.

Crashinfo 파일의 예

다음은 crashinfo 파일의 예입니다.

=== Flushing messages (07:12:39 UTC Tue Jul 18 2000) ===

Buffered messages:

```

00:00:35: %RSP-3-NOSTART: No microcode for Unknown card, slot 4
00:00:43: %SYS-4-CONFIG_NEWER: Configuration from version 12.1 may not be correctly
understood
00:00:44: %SYS-5-CONFIG_I: Configured from memory by console
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state
to down
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/2, changed state
to down
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/3, changed state
to down
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/4, changed state
to down
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/5, changed state
to down
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/0, changed state
to down
00:00:44: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state
to down
00:00:48: %SYS-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
Cisco IOS (r) RSP Software (RSP-PV-M), Version 12.0(10.6)ST, EARLY DEPLOYMENT MAINTENANCE
INTERIM SOFTWARE
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Fri 23-Jun-00 16:02 by richv

```

00:00:53: %LINK-5-CHANGED: Interface Ethernet0/2, changed state to administratively down
00:00:53: %LINK-5-CHANGED: Interface Ethernet0/3, changed state to administratively down
00:00:53: %LINK-5-CHANGED: Interface Ethernet0/4, changed state to administratively down
00:00:53: %LINK-5-CHANGED: Interface Ethernet0/5, changed state to administratively down
00:00:53: %LINK-5-CHANGED: Interface FastEthernet9/1/0, changed state to administratively down
00:00:53: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up
00:00:53: %LINK-3-UPDOWN: Interface Ethernet0/1, changed state to up
00:00:53: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to up
00:00:54: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to down
00:00:54: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0, changed state to up
00:00:54: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to up
00:01:01: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
00:10:36: %LINK-3-UPDOWN: Interface FastEthernet9/1/0, changed state to up
00:10:37: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to up
00:12:26: %SYS-5-CONFIG_I: Configured from console by console
00:36:42: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to down
00:36:43: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down
00:37:40: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to up
00:37:49: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
00:38:19: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to down
00:38:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down
00:39:27: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to up
00:39:36: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
14:20:06: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to down
14:21:09: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to up
14:22:54: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to down
14:26:39: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to up
16:00:16: %CLEAR-5-COUNTERS: Clear counter on all interfaces by console
16:10:09: %SYS-5-CONFIG_I: Configured from console by console
16:10:28: %SYS-5-CONFIG_I: Configured from console by console
16:10:58: %LINK-5-CHANGED: Interface Hssi9/0/1, changed state to administratively down
16:10:59: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down
16:11:03: %SYS-5-CONFIG_I: Configured from console by console
16:11:03: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to up
16:11:15: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
16:12:56: %RSP-3-NOSTART: No microcode for Unknown card, slot 4
16:13:03: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down
16:13:16: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
16:14:01: %SYS-5-CONFIG_I: Configured from console by console
16:14:13: %CLEAR-5-COUNTERS: Clear counter on all interfaces by console
18:00:11: %SYS-5-CONFIG_I: Configured from console by vty0 (IPv4 address)
18:00:29: %SYS-5-CONFIG_I: Configured from console by vty0 (IPv4 address)
19:36:09: %SYS-5-CONFIG_I: Configured from console by vty0 (IPv4 address)
21:06:20: %SYS-5-CONFIG_I: Configured from console by console
21:10:28: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to down
21:10:29: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down
21:11:30: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to up
21:11:31: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
21:12:01: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down
21:12:09: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to down
21:13:22: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to up
21:13:38: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to up
21:14:08: %LINEPROTO-5-UPDOWN: Line protocol on Interface Hssi9/0/1, changed state to down

21:37:24: %LINK-3-UPDOWN: Interface Hssi9/0/1, changed state to down
21:45:03: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet9/1/0, changed state to down
Queued messages:
22:13:19: %SYS-3-LOGGER_FLUSHING: System pausing to ensure console debugging output.

22:13:19: %SYS-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure console debugging output.
=== Start of Crashinfo Collection (07:12:39 UTC Tue Jul 18 2000) ===

For image:
Cisco Internetwork Operating System Software
Cisco IOS (r) RSP Software (RSP-PV-M), Version 12.0(10.6)ST, EARLY DEPLOYMENT MAINTENANCE INTERIM SOFTWARE
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Fri 23-Jun-00 16:02 by richv
===== Show Alignment =====

No alignment data has been recorded.
No spurious memory references have been recorded.

===== Malloc and Free Traces =====

MallocFree Trace: ixmallocfree=0x30 ptr=0x6121E5D0 6121E450: 619510A4 6026ED7C
61955EC0 6026ED7C 6196FDD8 6026ED7C 6197FDD4 6026ED7C 6121E470: 619A0D1C 6026ED7C
619B0DE8 6026ED7C 619D6A18 6026ED7C 619E6A14 6026ED7C 6121E490: 619F6A10 6026ED7C
61A06A0C 6026ED7C 61A16A08 6026ED7C 61A26A04 6026ED7C 6121E4B0: 61A39B20 6026ED7C
61A3D46C 6026ED7C 61A52900 6026ED7C 61A68B74 6026ED7C 6121E4D0: 61A5B358 6026ED7C
61AD9600 6026ED7C 61AD9E40 6026ED7C 61AE9E3C 6026ED7C 6121E4F0: 61AF9E38 6026ED7C
61B09E34 6026ED7C 61B211A0 6026ED7C 61A8E6BC 6026ED7C 6121E510: 61AA201C 6026ED7C
61B209E8 6044EEA8 61B20A40 6044EEA8 61B20A98 6044EEA8 6121E530: 61B20AF0 6044EEA8
61B20B48 6044EEA8 61B20BA0 6044EEA8 61AB5450 603FBE50 6121E550: 61AB5450 603FBE50
61AB25F8 60212C2C 61AB265C 60000164 61A7EC5C 30000020 6121E570: 61A7EC5C 602120DC
61A8839C 3000001E 61A8839C 60474D38 6150FBB4 60474FC4 6121E590: 612AF924 60284B40
61B46488 6023E360 61B4ABB8 6325AA24 61A3CCD8 6023E378 6121E5B0: 6150FB68 60212C2C
6150FBB4 60000016 612B29B4 3000001E 612B29B4 602120DC 6121E5D0: 613CA880 601FC4F8
616F8DA0 6026ED7C 61708D9C 6026ED7C 61718D98 6026ED7C 6121E5F0: 61728D94 6026ED7C
617440C4 6026ED7C 61744308 6026ED7C 61759038 6026ED7C 6121E610: 61770034 6026ED7C
6178AD60 6026ED7C 6179AD5C 6026ED7C 617AAD58 6026ED7C 6121E630: 617BAD54 6026ED7C
61912A5C 6026ED7C 6192C004 6026ED7C 61940974 6026ED7C

===== Stack Trace =====

-Traceback= 60287EE8 602B8D5C 6021CAF4 6022834C 6026BC4C 6026BC38

===== Context =====

RSP Software (RSP-PV-M), Version 12.0(10.6)ST, EARLY DEPLOYMENT MAINTENANCE INTERIM SOFTWARE

Compiled Fri 23-Jun-00 16:02 by richv

Signal = 23, Code = 0x24, Uptime 22:13:19

\$0 : 00000000, AT : 61220000, v0 : 00000032, v1 : 61222AF0
a0 : 60227BDC, a1 : 6129B958, a2 : 61AD82F8, a3 : 00000000
t0 : 61A3BA34, t1 : 8000FDA0, t2 : 34008700, t3 : FFFF00FF
t4 : 00000083, t5 : 3E840024, t6 : 00000000, t7 : 00000000
s0 : 0000003C, s1 : 00000036, s2 : 00000000, s3 : 61B33FF8
s4 : 00000000, s5 : 6121E840, s6 : 61209A30, s7 : 00000000
t8 : 602895EC, t9 : 00000000, k0 : 616DD144, k1 : 60290920
gp : 610AEDC0, sp : 61B33FE0, s8 : 6120FB00, ra : 602B8D5C
EPC : 60287EE8, SREG : 3400E703, Cause : 00000024
Error EPC : EFF5BFE7, BadVaddr : 403208D9

===== Stack Dump =====

Stack Frame Pointer in Context is 0x61B33FE0, at process level

61B33BE0:	3	0	8	1	602086F0	60209F0C	0	1
61B33C00:	7FFFFFFD	2	0	3	61B312F0	60209F0C	616E48B4	60208E1C

===== Process Level Info =====

---- Current Process Block (at 0x61A3BA34) ----

```
61A3BA0C: AB1234CD      4A 61A3BA34 60E432B4 60290684 61A3BC50 61A3B88C 8000010E
61A3BA2C:      1 606FB390 61B31334 8000FDA0 60227BDC 6129B958      64      36
61A3BA4C:      0 61B33FF8      0 6121E840 61209A30      0 6120FB00 61B341F0
61A3BA6C:      0 6027E32C      0      0      0      0 10100      1
61A3BA8C:      0      0      0      4A      0      0 10492E8 1040BB8
61A3BAAC:      0      0      0      ED58      0 6129B958  F084C      0
61A3BACC:      0 4C4B0E4      0 4C4B0E4 435CC9  AA0EE 60E0EEE4  3
61A3BAEC:      0      0      73      52      2EE0      2EE0 6129B958  0
61A3BB0C:      0      0      0      0      0      0      0 61B1A00C
61A3BB2C: 61A3BA34 6121E800      0      0 61222C80      0      0      0
61A3BB4C:      4230      0      0      0 61A3BB34      0      0      0
61A3BB6C:      4280 61A3BA34      0      0      0      0 61A3BB34 61A3BA34
61A3BB8C:      0      0      142D0      0      0      0 61A3BB34 61A3BA34
61A3BBAC:      0      0      242F0      0      0      0      0      0
61A3BBCC:      0 61754D5C      0      0      0      0      0      0
61A3BBEC:      0      0      0 61754DB8 61A3BBE4 61754D64      0 61223950
61A3BC0C:      0      0      0 FFFFFFFF  FFFFFFFF      0      0      0
61A3BC2C:      0      0      0      0      0 61AA1F10      0 BEEFCAFE
```

---- Partial decode of process block ----

Pid 74: Process "Exec" stack 0x61B31334 savedsp 0x8000FDA0

Flags: analyze crashblock on_old_queue

Regs s0-s8,ra at last suspend; a0,a1,sp from proc creation, PC unused:

```
a0: 60227BDC a1: 6129B958 s0: 00000064 s1: 00000036 s2: 00000000
s3: 61B33FF8 s4: 00000000 s5: 6121E840 s6: 61209A30 s7: 00000000
s8: 6120FB00 sp: 61B341F0 PC: 00000000 ra: 6027E32C
```

```
Status      0x00000000 Orig_ra    0x00000000 Routine    0x00000000 Signal 0
Caller_pc   0x00000000 Callee_pc  0x00000000 Dbg_events 0x00000000 State 0
Totmalloc   17076968  Totfree   17042360  Totgetbuf  0
Totretbuf   0      Edisms     0x0      Eparm      0x6129B958
Elapsed     0xF084C  Ncalls    0x435CC9  Ngiveups   0xAA0EE
Priority_q   3      Ticks_5s  0      Cpu_5sec   0      Cpu_1min  115
Cpu_5min    82      Stacksize 0x2EE0    Lowstack   0x2EE0
Ttyptr      0x6129B958 Mem_holding 0x0      Thrash_count 0
Wakeup_reasons 0x0FFFFFFF Default_wakeup_reasons 0x0FFFFFFF
Direct_wakeup_major 0x00000000 Direct_wakeup_minor 0x00000000
```

---- Current Process Stack (0xB44 bytes used, out of 0x2EE0 available) ----

Current SP = 0x61B33FE0, saved SP = 0x8000FDA0

```
61B33E14:      4 602086F0 FFFFFFFF30 616DBE8C      0 602204DC      0 61B33FC4
61B33E34: 60E0F5DA      7D0      0      4 610A7CD6 60E0F5D8 61B33EE0      0
61B33E54: 60208ABC 61B33FC4      1 60E0F601 61B33E88      0      1      3C
61B33E74:      36      0 61B33FF8      0      23 61209A30 60208E1C 612B2990
61B33E94:      0 602120DC      0      0      0 6129C668 61B33EF0      0
61B33EB4: 602120DC 61116268      2 FFFFFFFFD      D 10000000 60272480  1
61B33ED4:      100 60212C2C 6129C41C      0 6129C3CD 602120DC 61B33FF8      64
61B33EF4:      A 6129C668 6129C3CD 61B33FD0 61B33FF8 610A7E80      A FFFFFFFFD
61B33F14: 602120E4 61B33FD0 61B33FF8 610A7E80      A 6129C1BC 6129C3CD 602106E0
61B33F34: 602103FC 61209A30      0 6120FB00 60208A04 61B33FC8      1      0
61B33F54: 4C4B0E4      0      0 61A3BB9C      36      0 61B33FF8      0
61B33F74: 6121E840 61209A30      0 6027A0F8      36 60213150 61B33FC8 FFFFFFFFD
61B33F94: FFFFFFFF 6027A1EC 6027A1E0      4A 61B33FF8      64      36      0
61B33FB4: 4C4B0E4      64 6027E2F8      3C 60208CCC 60E4C2C8 61B33FE4 602B8D4C
61B33FD4: FFFFFFFF      3C 602B8D54 60E4C2A4 FFFFFFFF      0 FFFFFFFF      5
```

```

61B33FF4: 60E3B024 36008935 61537A18 602677B4 61B3408C 60260394 400000 0
61B34014: 0 0 FFFFFFFF 60E23C4C 61B34020 0 0 0
61B34034: FFFFFFFF 61B340B0 61537A20 0 0 0 0 FFFFFFFD
61B34054: 1 61537A18 0 0 0 0 0 0
61B34074: 60208980 0 601F2698 60E163C6 61B340B0 0 FFFFFFFF 61537A18
61B34094: 61537A18 6021C068 6021C040 0 60E163B8 6153892B 61B340B0 30373A31
61B340B4: 313A3534 20555443 20547565 204A756C 20313820 32303030 FFFFFF 0
61B340D4: 0 2400000 61537A18 60E23C78 60E23C4C 6021B744 FFFFFFFF 61537A18
61B340F4: 614D2EE4 5 0 6021B74C 6021B63C 1 6129BAE8 0
61B34114: 61537A18 0 1 0 6121E840 61209A30 0 0
61B34134: 6021CAF4 61B34140 0 4A 1 0 0 0
61B34154: 5 0 6129B958 61537A18 0 0 1 0
61B34174: 6129BAE8 61209A30 6022834C FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF 1
61B34194: 610A8124 6153890C FFFFFFFF 1 DFFFFFF FFFFFFFF 6129C3CD 0
61B341B4: 0 0 0 0 0 0 0 0
61B341D4: 6026BC4C FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF 6026BC38 FFFFFFFF FFFFFFFF
61B341F4: FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF

```

==== Interrupt Level Stack Dump =====

WARNING: Interrupt stack dumps are consistent ONLY for interrupts which are blocked during exception handling. Also register output is valid ONLY for interrupts which store an r4k_context block on the stack.

---- Level 1 Interrupt stack (0x3BC bytes used, out of 0x2328 available) ----

```

intstacks[1]: base 0x61502F44 stack 0x61505268 routine 0x602CB5A4 count 0x15B17FD
               size 0x2328      low 0x2328      desc 0x60E49E58

```

```

61504EB0: 0 6019F318 FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFF FFFFFFFF
61504ED0: 6129B958 612581A0 612581A0 48009CE0 AC82817 4061E5E8 0 61207AB0
61504EF0: 612581A0 601BADFC 61758CA4 61758B5C 0 6125F280 0 4ADB38C
61504F10: 0 4ADB388 61222C80 1 8 60E40000 5A 5A
61504F30: 61A3BB24 0 61758CA4 61758B5C 0 612581A0 6027A968 6027F4C0
61504F50: 6176B108 6176AFC0 0 612581A0 6027A968 61758B5C 6023E628 6027EEEE0
61504F70: 8 6176AFC0 8 6176AFC0 8 6027EEEE0 8 614F0630
61504F90: 8 614F0630 8 6027EEEE0 1 6027F4C0 61812740 612581A0
61504FB0: 614F40AC 614BEE54 1 6027F4C0 615076E0 6027FB80 614BEE54 612581A0
61504FD0: 614BEE54 612581A0 615076E0 6027FB80 3C 3C 602BF0C4 0
61504FF0: 61869450 6024DE78 615076E0 602BF0C4 61869450 612581A0 6024DE44 0
61505010: 615076E0 612581A0 EE 61869450 615076E0 612581A0 EE 602BF360
61505030: 200 6111E828 61A3BB24 0 7 612581A0 405BBA5A 7
61505050: 200 6111E828 602C15B0 602C136C 615076E0 7 405BBA68 E0
61505070: 61A8C144 612581A0 612581A0 4800AC10 585BBA5A 602CE360 FFFFFFFF FFFFFFFF
61505090: FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF
615050B0: FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF
615050D0: 0 2AB60919 FFFFFF 0 60 1000C00 0 FFFFFFFF
615050F0: FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF 61A8C144 61222CB0
61505110: 8000FE30 0 1 0 61B1A00C 0 61220000 6028BEE8
61505130: FFFFFFFF FFFFFFFF 0 61220000 0 1 0 61A8C234
61505150: 0 0 0 4C4A138 0 0 0 0
61505170: 0 61222FA0 0 61AA07A8 0 1 FFFFFFFF FFFF00FF
61505190: 0 83 0 3E840024 0 400 0 0
615051B0: FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF
615051D0: FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF
615051F0: 0 602895EC 0 0 0 616DD144 0 60290920
61505210: FFFFFFFF FFFFFFFF FFFFFFFF 8000FE20 FFFFFFFF FFFFFFFF 0 60294680
61505230: 3400E703 FFFFFFFF FFFFFFFF 932D9556 FFFFFFFF FD40711A FFFFFFFF FFFFFFFF
61505250: FFFFFFFF FFFFFFFF 0 60292830 FFFFFFFF FFFFFFFF FFFFFFFF

```

```

$0 : FFFFFFFF, AT : 61220000, v0 : 00000001, v1 : 61A8C234
a0 : 00000000, a1 : 04C4A138, a2 : 00000000, a3 : 00000000
t0 : 61222FA0, t1 : 61AA07A8, t2 : 00000001, t3 : FFFF00FF
t4 : 00000083, t5 : 3E840024, t6 : 00000400, t7 : 00000000
s0 : FFFFFFFF, s1 : FFFFFFFF, s2 : FFFFFFFF, s3 : FFFFFFFF

```

s4 : FFFFFFFF, s5 : FFFFFFFF, s6 : FFFFFFFF, s7 : FFFFFFFF
t8 : 602895EC, t9 : 00000000, k0 : 616DD144, k1 : 60290920
gp : FFFFFFFF, sp : 8000FE20, s8 : FFFFFFFF, ra : 60294680
EPC : 60292830, ErrorEPC : FFFFFFFF, SREG : 3400E703

---- Level 2 Interrupt stack (0x3C8 bytes used, out of 0x2328 available) ----

...
...
...

---- Level 7 Interrupt stack (0x190 bytes used, out of 0x2328 available) ----

intstacks[7]: base 0x61297120 stack 0x61299440 routine 0x6028B3D8 count 0x1313314
size 0x2328 low 0x2328 desc 0x60E40D18

612992B8:	0	AF5C	0	4C4B0E4	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF		
612992D8:	61A4FOCC	1680	61220000	6028B4E8	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF		
612992F8:	6028A2BC	38	6028B2DC	FFFFFFFF	FFFFFFFF	FFFFFFFF	0	24		
61299318:	0	121A3	0	3	0	7CDEBEBE	0	3E8		
61299338:	0	3E8	0	8	0	F4240	0	34008001		
61299358:	0	34008000	FFFFFFFF	FFFFF00F	0	6107EEF0	0	FF		
61299378:	0	6107EC98	0	8B4CEA	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF		
61299398:	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF		
612993B8:	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	0	39AF	0	0		
612993D8:	0	61221940	0	0	FFFFFFFF	FFFFFFFF	0	6107EA20		
612993F8:	FFFFFFFF	FFFFFFFF	0	6028B170	34008003	FFFFFFFF	0	1E848		
61299418:	0	0	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF	0	6028B2DC		
61299438:	FFFFFFFF	FFFFFFFF	FFFFFFFF	FFFFFFFF						

\$0 : FFFFFFFF, AT : 00000024, v0 : 00000000, v1 : 80808080
a0 : 00004DC0, a1 : 0053348C, a2 : 6107EA40, a3 : 00000004
t0 : 29292929, t1 : 34008001, t2 : 34008000, t3 : FFFF00FF
t4 : 6107EEF0, t5 : 000000FF, t6 : 6107EC98, t7 : 008B4CEA
s0 : FFFFFFFF, s1 : FFFFFFFF, s2 : FFFFFFFF, s3 : FFFFFFFF
s4 : FFFFFFFF, s5 : FFFFFFFF, s6 : FFFFFFFF, s7 : FFFFFFFF
t8 : 000039AF, t9 : 00000000, k0 : 61221940, k1 : 00000000
gp : FFFFFFFF, sp : 6107EA30, s8 : FFFFFFFF, ra : 60395FBC
EPC : 60395FB4, ErrorEPC : FFFFFFFF, SREG : 34008003

===== Register Memory Dump =====

Reg00(\$0): 0 [Not RAM Addr]
Reg01(AT): 61220000
Reg02(v0): 32 [Not RAM Addr]
Reg03(v1): 61222AF0
Reg04(a0): 60227BDC
Reg05(a1): 6129B958 [In malloc Block 0x6129B930] [Last malloc Block 0x6129B850]
Reg06(a2): 61AD82F8 [In malloc Block 0x61AD82D0]
Reg07(a3): 0 [Not RAM Addr]
Reg08(t0): 61A3BA34 [In malloc Block 0x61A3BA0C] [Last malloc Block 0x61A3B878]
Reg09(t1): 8000FDA0
Reg10(t2): 34008700 [Not RAM Addr]
Reg11(t3): FFFF00FF [Not RAM Addr]
Reg12(t4): 83 [Not RAM Addr]
Reg13(t5): 3E840024 [Not RAM Addr]
Reg14(t6): 0 [Not RAM Addr]
Reg15(t7): 0 [Not RAM Addr]
Reg16(s0): 3C [Not RAM Addr]
Reg17(s1): 36 [Not RAM Addr]
Reg18(s2): 0 [Not RAM Addr]
Reg19(s3): 61B33FF8
Reg20(s4): 0 [Not RAM Addr]
Reg21(s5): 6121E840

```

Reg22(s6): 61209A30
Reg23(s7):      0 [Not RAM Addr]
Reg24(t8): 602895EC
Reg25(t9):      0 [Not RAM Addr]
Reg26(k0): 616DD144 [In malloc Block 0x616DD0FC] [Last malloc Block 0x616DCFD0]
Reg27(k1): 60290920
Reg28(gp): 610AEDC0
Reg29(sp): 61B33FE0
Reg30(s8): 6120FB00
Reg31(ra): 602B8D5C
---- block0 ptr=61220000 is_malloc=0 ----

6121FFC0:      0      0      0      0      0      0      0      0      0
6121FFE0:      0      0      0      0      0      0      0      0      0
61220000:      0      0      0      0      0      0      0      0      0
61220020:      0      0      0      0      0      0      0      0      0
61220040:      0      0      0      0      0      0      0      0      0
61220060:      0      0      0      0      0      0      0      0      0
61220080:      0      0 602833AC      0      0 602833AC      0      0
612200A0: 602833AC      0      0 602833AC      0      0 602833AC      0
612200C0:      0 602833AC      0      0 602833AC      68      0 602833AC
612200E0:      0      0      0      0      0      0      0      0 603F0E50
---- block1 ptr=61222AF0 is_malloc=0 ----
...
...
...

---- block95 ptr=66682064 is_malloc=0 ----

66682024:      0      0      0      0      0      0      0      0      0
66682044:      0      0      0      0      0      0      0      0      0
66682064:      0      0      0      0      0      0      0      0      0
66682084:      0      0      0      0      0      0      0      0      0
666820A4:      0      0      0      0      0      0      0      0      0
666820C4:      0      0      0      0      0      0      0      0      0
666820E4:      0      0      0      0      0      0      0      0      0
66682104:      0      0      0      0      0      0      0      0      0
66682124:      0      0      0      0      0      0      0      0      0
66682144:      0      0      0      0      0      0      0      0      0

```

==== End of Crashinfo Collection =====

관련 정보

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