

Obtendo informações a partir do arquivo de informação de travamento

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[Introdução](#)

Este documento explica o que é um arquivo crashinfo (informações de travamento), o que ele contém e como recuperar informações dele.

[Pré-requisitos](#)

[Requisitos](#)

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- Cisco 1700, 3600, 7000, 7200, 7500, e 12000 Series Router
- Software Release 11.1 e Mais Recente de Cisco IOS®

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

[Convenções](#)

Consulte as [Convenções de Dicas Técnicas da Cisco](#) para obter mais informações sobre convenções de documentos.

Background

O arquivo crashinfo (informações de travamento) é uma coleção de relativo à informação útil ao impacto atual armazenado no flash ou na memória Flash da bota.

Quando um roteador trava devido a dados ou pilhas corrompidos, são necessárias mais informações sobre recarregamento para depurar esse tipo de travamento do que apenas a saída do comando show stacks normal. A informação do reload é redigida à revelia ao **bootflash: crashinfo** no Gigabit Router Processor do Cisco 12000 (GRP), o Cisco 7000 e 7500 Route Switch Processor (RSP), e os Cisco 7200 Series Router. Para o Cisco 7500 VIP2, esse arquivo é armazenado por padrão em bootflash:vip2_slot_no_crashinfo, onde slot_no é o número do slot do VIP2. Para o Cisco 7000 route processor (RP), o arquivo é armazenado à revelia **para piscar: crashinfo**.

A geração do arquivo de informações de travamento padrão foi introduzida pela primeira vez nestes Cisco IOS Software Releases:

- Para RSP e RP:11.1(13)CA11.1(19)CC11.2(10)P11.3(1)11.3(1)T
- Para Cisco 7200s:11.1(18)CA11.2(15)P11.3(6)11.3(6)AA11.3(6)NA11.3(6)T
- Para os GRPs do Cisco 12000:11.2(11)GS2.11.2(9)GS7.211.2(14)GS2.5

O mecanismo de coleta de informação de travamento está disponível no software Cisco IOS versões 12.0, 12.1 e 12.2 para estas plataformas:

- Por 1700s de Cisco:12.1(2)12.1(2)T12.2(1)
- Para Cisco 2600s:12.1(13)12.2(7)T12.2(7)
- Para Cisco 3600s:12.2.(12)DA12.2(11)T12.2(11)

Conteúdo do arquivo de informação de travamento

O arquivo crashinfo (informações de travamento) contém esta informação:

- histórico limitado de mensagens de erro (log) e comandos
- descrição da imagem em execução no momento do travamento
- **show alignment**
- alocação de endereço de multicast e rastreamentos livres
- rastro da pilha do nível de processo
- contexto do nível de processo
- dump da pilha de nível de processo
- interrupt level stack dump
- informações em nível de processo
- dump de memória do registro de nível de processo

Obtendo informações a partir do arquivo de informação de travamento

Quando um crashinfo está disponível no flash da bota, este aparece na extremidade do comando **show stack output**:

```
*****
***** 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
...
```

Emita estes comandos a fim recuperar um arquivo crashinfo (informações de travamento):

```
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
...
```

[Copiando o arquivo de informação de travamento em um servidor TFTP](#)

Emita estes comandos a fim copiar o arquivo crashinfo (informações de travamento) a um server do Trivial File Transfer Protocol (TFTP):

```
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 ]?
!!
```

Se o RSP slave tiver travado, observe slavebootflash:. Para o Cisco 12000 GSR, consulte o sec-bootflash:. Assegure-se de que haja bastante espaço livre no flash da bota usando o **bootflash do dir**: comando. A fim suprimir de um arquivo crashinfo (informações de travamento) velho para fazer o espaço livre, emita o **bootflash da supressão: filename**. O **bootflash da supressão: o comando filename** marca o arquivo como suprimido, mas o arquivo está ainda fisicamente na memória e pode ser restaurado. A fim suprimir fisicamente d da memória, emita o **bootflash do aperto**: comando.

Se o roteador causou um crash épocas múltiplas, os arquivos crashinfo (informações de travamento) podem empilhar acima com somente o último um visualizável. Por exemplo:

```
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)
```

Observe que um arquivo é apagado e um é visualizável.

```
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)
```

Suprima do arquivo que você apenas olhou:

```
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)
```

Restaure o arquivo velho:

```
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)
```

Examine o arquivo velho com o **bootflash** do arquivo da mostra: comando **crashinfo**. Repita este procedimento para rever uns impactos mais velhos.

[Arquivo de exemplo de informação de travamento](#)

Este é um exemplo de um arquivo crashinfo (informações de travamento):

```
=== 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
IOS (tm) 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 (144.254.2.77)
18:00:29: %SYS-5-CONFIG_I: Configured from console by vty0 (144.254.2.77)
19:36:09: %SYS-5-CONFIG_I: Configured from console by vty0 (144.254.2.77)
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

IOS (tm) 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 |
| 61B33C20: | 616E48B4 | FFFFFFFF | 61B33BDF | 20000 | 614CA664 | 0 | 0 | 1 |
| 61B33C40: | 7FFFFFFFA | 5 | 0 | 5 | 61537304 | 60209F0C | 0 | 1 |
| 61B33C60: | 7FFFFFFFA | 5 | 0 | 5 | 61537304 | 60209F0C | 0 | F |
| 61B33C80: | A | 60209A78 | 61B312F2 | 1 | 30B33CD8 | 0 | 7FFFFFFF | 1 |
| 61B33CA0: | 0 | 9 | 6038DD10 | EF | 1 | F3 | 0 | C |
| 61B33CC0: | 61B33CC0 | 9 | 61153CC8 | 61B33FE8 | 61B34054 | FFFFFFFF8 | 0 | 0 |
| 61B33CE0: | 6129B958 | 0 | 601EE388 | 6129B958 | 20220 | 65 | 60283F98 | 20 |
| 61B33D00: | 4A | 60208E1C | 6129B958 | 602B66C4 | 601EE1D0 | 4 | 6129B958 | 0 |
| 61B33D20: | 601EE1D8 | 601EE1C8 | 603981A4 | 60208E1C | FFFFFFFF | 1 | 3C | 6129B958 |
| 61B33D40: | 0 | 61B33FF8 | A | 1 | 602086F0 | 6129C2CC | 36 | 1 |
| 61B33D60: | 602086F0 | B0B0B0B0 | B0B0B0B0 | B0B0B0B0 | B0B0B0B0 | B0B0B0B0 | 0 | B0B0B0B0 |
| 61B33D80: | 0 | 6129C3CD | 7FFFFFFFE | 0 | 0 | 1 | 60E10000 | 60209BB8 |
| 61B33DA0: | 0 | 7FFFFFFF | 7FFFFFFE3 | 1C | 0 | 1C | 61B33FA8 | 60209F0C |
| 61B33DC0: | 6129C1BC | 6129B958 | 61B33FD0 | 61B33FF8 | A | 1 | 602086F0 | 6038DB78 |

| | | | | | | | | |
|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| 61B33DE0: | 61B34120 | 6129B958 | 602087AC | 2D | A | 1 | 602086F0 | 1 |
| 61B33E00: | 616DBEB0 | 98967D | 0 | 0 | 0 | 4 | 602086F0 | FFFFFFF30 |
| 61B33E20: | 616DBE8C | 0 | 602204DC | 0 | 61B33FC4 | 60E0F5DA | 7D0 | 0 |
| 61B33E40: | 4 | 610A7CD6 | 60E0F5D8 | 61B33EE0 | 0 | 60208ABC | 61B33FC4 | 1 |
| 61B33E60: | 60E0F601 | 61B33E88 | 0 | 1 | 3C | 36 | 0 | 61B33FF8 |
| 61B33E80: | 0 | 23 | 61209A30 | 60208E1C | 612B2990 | 0 | 602120DC | 0 |
| 61B33EA0: | 0 | 0 | 6129C668 | 61B33EF0 | 0 | 602120DC | 61116268 | 2 |
| 61B33EC0: | FFFFFFFFD | D | 10000000 | 60272480 | 1 | 100 | 60212C2C | 6129C41C |
| 61B33EE0: | 0 | 6129C3CD | 602120DC | 61B33FF8 | 64 | A | 6129C668 | 6129C3CD |
| 61B33F00: | 61B33FD0 | 61B33FF8 | 610A7E80 | A | FFFFFFFFD | 602120E4 | 61B33FD0 | 61B33FF8 |
| 61B33F20: | 610A7E80 | A | 6129C1BC | 6129C3CD | 602106E0 | 602103FC | 61209A30 | 0 |
| 61B33F40: | 6120FB00 | 60208A04 | 61B33FC8 | 1 | 0 | 4C4B0E4 | 0 | 0 |
| 61B33F60: | 61A3BB9C | 36 | 0 | 61B33FF8 | 0 | 6121E840 | 61209A30 | 0 |
| 61B33F80: | 6027A0F8 | 36 | 60213150 | 61B33FC8 | FFFFFFFFD | FFFFFFFFF | 6027A1EC | 6027A1E0 |
| 61B33FA0: | 4A | 61B33FF8 | 64 | 36 | 0 | 4C4B0E4 | 64 | 6027E2F8 |
| 61B33FC0: | 3C | 60208CCC | 60E4C2C8 | 61B33FE4 | 602B8D4C | FFFFFFFFF | 3C | 602B8D54 |
| 61B33FE0: | 60E4C2A4 | FFFFFFFFD | 0 | FFFFFFFFFE | 5 | 60E3B024 | 36008935 | 61537A18 |
| 61B34000: | 602677B4 | 61B3408C | 60260394 | 400000 | 0 | 0 | 0 | FFFFFFFFF |
| 61B34020: | 60E23C4C | 61B34020 | 0 | 0 | 0 | FFFFFFFFF | 61B340B0 | 61537A20 |
| 61B34040: | 0 | 0 | 0 | 0 | FFFFFFFFD | 1 | 61537A18 | 0 |
| 61B34060: | 0 | 0 | 0 | 0 | 0 | 60208980 | 0 | 601F2698 |
| 61B34080: | 60E163C6 | 61B340B0 | 0 | FFFFFFFFF | 61537A18 | 61537A18 | 6021C068 | 6021C040 |
| 61B340A0: | 0 | 60E163B8 | 6153892B | 61B340B0 | 30373A31 | 313A3534 | 20555443 | 20547565 |
| 61B340C0: | 204A756C | 20313820 | 32303030 | FFFFFFF | 0 | 0 | 2400000 | 61537A18 |
| 61B340E0: | 60E23C78 | 60E23C4C | 6021B744 | FFFFFFFFF | 61537A18 | 614D2EE4 | 5 | 0 |
| 61B34100: | 6021B74C | 6021B63C | 1 | 6129BAE8 | 0 | 61537A18 | 0 | 1 |
| 61B34120: | 0 | 6121E840 | 61209A30 | 0 | 0 | 6021CAF4 | 61B34140 | 0 |
| 61B34140: | 4A | 1 | 0 | 0 | 0 | 5 | 0 | 6129B958 |
| 61B34160: | 61537A18 | 0 | 0 | 1 | 0 | 6129BAE8 | 61209A30 | 6022834C |
| 61B34180: | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | 1 | 610A8124 | 6153890C | FFFFFFFFF |
| 61B341A0: | 1 | DDDDDDF | FFFFFFFFF | 6129C3CD | 0 | 0 | 0 | 0 |
| 61B341C0: | 0 | 0 | 0 | 0 | 0 | 6026BC4C | FFFFFFFFF | FFFFFFFFF |
| 61B341E0: | FFFFFFFFF | FFFFFFFFF | 6026BC38 | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF |
| 61B34200: | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | FFFFFFFFF | FD0110DF | AB1234CD | 19 |
| 61B34220: | 614F3BF8 | 60E34110 | 6023E098 | 61B38948 | 61B31320 | 80002384 | 1 | 6023E360 |
| 61B34240: | AFACEFAD | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34260: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34280: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B342A0: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B342C0: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B342E0: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34300: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34320: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34340: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34360: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B34380: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B343A0: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61B343C0: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

==== 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 FFFFFFFFD      0 FFFFFFFFE      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 FFFFFFFFD
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 FFFFFFFF      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 DFFFFFFF 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 FFFFFFFF 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 FFFFFFFF      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: 61A4F0CC 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 FFFF00FF      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
6121FFE0:      0      0      0      0      0      0      0      0
61220000:      0      0      0      0      0      0      0      0
61220020:      0      0      0      0      0      0      0      0
61220040:      0      0      0      0      0      0      0      0
61220060:      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 |
| 66682044: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66682064: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66682084: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666820A4: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666820C4: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 666820E4: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66682104: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66682124: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66682144: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

=====
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