FastRAD

	COLLABORATORS		
	TITLE : FastRAD		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		October 9, 2022	

	REVISION HISTORY		
NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

FastRAD

1.1 FastRAD.guide

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          July 27, 1997

      Torbjörn Andersson
           presents
         FastRAD 1.1

          Freeware
============================================================
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1. Contents

1.2   introduction

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2. Introduction
---------------------------------------------------------------
FastRAD will fool the recoverable RAM disk (RAD) to use fast
memory instead of chip memory. Three things are done to
accomplish this:

1. exec.library/AllocMem() is patched. When RAD tries to
allocate memory for the disk data, it asks for memory of
type MEMF_KICK (which means chip memory on most systems).
The patch simply clears this flag, so the best memory
available will be allocated and returned to RAD instead of
chip memory.

This will make RAD use fast memory happily, but it won't
survive a reboot.

2. exec.library/SumKickData() is patched. It will be called
right after RAD has added the memory previously allocated to
the KickMem list. The patch changes the specified number of
memory references by RAD, so Exec won't try to allocate the
fast memory on a reboot. Since the memory isn't added at
that time, the allocation would fail if this isn't done, and
thus RAD (actually everything in the KickTag list) would be
ignored.

Now the problem is that the memory is free for anyone to
allocate and use.

3. A resident tag is also installed. When it's run at reboot
it looks for all structures in the KickMem list that was
added by different RAD units, and tries to allocate the
memory that Exec couldn't allocate. If this fails, an alert
is displayed.

This should do it.
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1.3   requirements

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3. Requirements
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FastRAD requires AmigaOS 3.0 or higher.
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1.4   usage

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4. Usage
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FastRAD cannot be used from Workbench. Note that FastRAD
must run before the RAD disk(s) it should patch are added
to the system. Early in S:Startup-Sequence is probably the
best place to start FastRAD. The CLI usage is:

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NAME/A/M,KILL/S,PRI/N
```

Example:

```
FastRAD RAD:
```

Explanation of options:

NAME
The name(s) of the RAD disk(s) you will mount and use,
and want to have in fast memory. The case of the characters
doesn't matter. The colon (:) character can be left out.

KILL
The SumKickData() patch will remove RAD from the KickMem and
KickTag lists. Thus, RAD will not survive a reboot.

PRI
Priority of the resident tag FastRAD installs. It allocates
the memory RAD uses at reboot. If the allocation fails, an
alert will be displayed to inform about this.
     By default the priority is two less than the priority
of intuition.library. If it for some reason is necessary to
do the allocation earlier the priority can be raised. But if
intuition.library isn't initialized you will not see any
alert if the allocation still fails.
     After an alert, the variables in ExecBase that hold
information about resident things are cleared (i.e.
ColdCapture, CoolCapture, WarmCapture, KickTagPtr and
KickMemPtr), and then the machine is rebooted again.
     If the KILL option is used, no resident tag will be
installed, and this option is ignored.
     This option has no effect if FastRAD has run earlier
and already installed its resident tag.

1.5 history

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5. History
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1.0 (16.7.97)
· First release.

1.1 (27.7.97)
· Added KILL option.

1.6 distribution

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6. Distribution
---------------------------------------------------------------
No commercial usage of FastRAD is allowed without written
permission from the author. Other distribution is allowed if
no files in the original distribution are removed or
modified.
```

1.7 author

```
7. Author
---------------------------------------------------------------
FastRAD executable and documentation are made by and
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                                   I love you - AMIGA
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