

# How to Determine the SIMM Configuration of a Cisco 3620 or 3640 Series Router

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## Introduction

When deciding whether to upgrade the memory on the box, it is necessary to determine the exact mix of memory currently installed. This document provides instructions to help you determine the DRAM SIMM configuration of a 3620 or 3640 router. These instructions do **not** apply to a 2600 or 3660.

**Note:** On a 2691, 3631, 3725, or 3745, issue the Cisco IOS<sup>®</sup> software **show platform** command to see the memory layout.

## Prerequisites

### Requirements

There are no specific prerequisites for this document.

### Components Used

This document is only applicable to the Cisco 3620 and 3640 Series router.

### Conventions

For more information on document conventions, see the Technical Tips Conventions.

## Background Information

Cisco 3620 and Cisco 3640 (including 3640A) routers each contain four single in-line memory module (SIMM) sockets for Dynamic RAM (DRAM): bank 0 (SIMM 0), bank 1 (SIMM 1), bank 2 (SIMM 2), and bank 3 (SIMM 3). A socket corresponds to one bank of memory. Each socket can hold one DRAM SIMM of any size permitted for that router.

The 3620 and 3640 series routers have requirements and guidelines for memory. For more information on such guidelines, refer to the **Memory Rules** section in the document Product Bulletin – No. 544: Cisco 3600 Series Memory Options and Configuration Guide.

# Procedure

## 1. Log into the router in enable mode:

```
Router>enable
Password:
Router#
```

## 2. Issue the Cisco IOS software show version command to find the ROMMON version.

```
Router#show version
Cisco Internetwork Operating System Software
IOS (tm) 3600 Software (C3640-JSX-M), Version 12.2(19), RELEASE SOFTWARE (fc3)
Copyright (c) 1986-1999 by cisco Systems, Inc.
Compiled Tue 30-Nov-99 05:39 by kpma
Image text-base: 0x60008930, data-base: 0x614B2000
```

```
ROM: System Bootstrap, Version 11.1(20)AA2, EARLY DEPLOYMENT RELEASE
SOFTWARE(fc1)
```

```
Router uptime is 22 weeks, 2 days, 8 hours, 31 minutes
System restarted by power-on
System image file is "flash:c3640-jsx-mz.122-19.bin"
```

*!--- Output suppressed*

Note that in this output, the ROMMON version is 11.1(20)AA2.

## 3. Use the ROMMON version to find the address of "dram\_config" from the table below.

### 3620/3640 DRAM Config Addresses

| ROMMON Version | Address of dram_config |
|----------------|------------------------|
| 11.1(7)AX      | 0xa0002d18             |
| 11.1(17)AA     | 0xa0002d18             |
| 11.1(19)AA     | 0xa0002d18             |
| 11.1(20)AA1    | 0xa0002d18             |
| 11.1(20)AA2    | 0xa0002d28             |
| 12.1(17r)      | 0xa0002cb8             |

In this example, the address of dram\_config corresponding to ROMMON version **11.1(20)AA2** is **0xa0002d28**.

## 4. Issue the Cisco IOS software show memory <dram\_config address> command to show the value of "dram\_config":

Use the dram\_config address from Step 3 in the **show memory** command. For example:

```
Router#show memory 0xa0002d28
A0002D20:          30000044 04000000          0..D....
A0002D30: 0000001E 00000000 00000000 00000000 .....
A0002D40: A0002D50 00000000 00000000 00000000 .-P.....
A0002D50: BFC04D60 80005B40 00000007 00000007 ?@M`. .[@.....
A0002D60: 80005D50 00000008 00000003 00000001 ..]P.....
```

*!--- Output suppressed*

Make a note of the first number in the first line of the output. In this example, it is **30000044**.

**Tip:** You can type an ending memory address slightly higher than the starting one in order to get just the first couple of lines, instead of the entire memory dump. In this specific case, you can type: **show memory 0xa0002d28 0xa0002d30**.

### 5. Enter the first number here.

Enter the first number from the **show memory** listing: , then hit the "**Tab**" key on your keyboard.

**Note:** Do **not** use the "Enter" Key

### 6. The memory configuration for your 3620 or 3640 router will be shown in this table.

| SIMM Slot    | SIMM Size |
|--------------|-----------|
| 0            |           |
| 1            |           |
| 2            |           |
| 3            |           |
| Total Memory |           |

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## Related Information

- [Upgrading System Memory in Cisco 3600 Series Routers](#)
  - [Installing Memory in the 3600 Series Router](#)
  - [Product Bulletin – No. 544: Cisco 3600 Series Memory Options and Configuration Guide](#)
  - [3600 Series Multiservice Platforms](#)
  - [Cisco Systems – Technical Support](#)
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