

- If you need to put the relay logs in some area other than the data directory because your relay logs tend to be very large and you do not want to decrease `max_relay_log_size`.
- To increase speed by using load-balancing between disks.

You can obtain the relay log file name (and path) from the `relay_log_basename` system variable.

- `relay_log_basename`

System Variable	<code>relay_log_basename</code>
Scope	Global
Dynamic	No
<code>SET_VAR</code> Hint Applies	No
Type	File name
Default Value	<code>datadir + '/' + hostname + '-relay-bin'</code>

Holds the base name and complete path to the relay log file. The maximum variable length is 256. This variable is set by the server and is read only.

- `relay_log_index`

Command-Line Format	<code>--relay-log-index=file_name</code>
System Variable	<code>relay_log_index</code>
Scope	Global
Dynamic	No
<code>SET_VAR</code> Hint Applies	No
Type	File name
Default Value	<code>*host_name*-relay-bin.index</code>

The name for the relay log index file. The maximum variable length is 256. If you do not specify this variable, but the `relay_log` system variable is specified, its value is used as the default base name for the relay log index file. If `relay_log` is also not specified, then for the default replication channel, the default name is `host_name-relay-bin.index`, using the name of the host machine. For non-default replication channels, the default name is `host_name-relay-bin-channel.index`, where `channel` is the name of the replication channel recorded in this relay log index.

The default location for relay log files is the data directory, or any other location that was specified using the `relay_log` system variable. You can use the `relay_log_index` system variable to specify an alternative location, by adding a leading absolute path name to the base name to specify a different directory.

The relay log and relay log index on a replication server cannot be given the same names as the binary log and binary log index, whose names are specified by the `--log-bin` and `--log-bin-index` options. The server issues an error message and does not start if the binary log and relay log file base names would be the same.

Due to the manner in which MySQL parses server options, if you specify this variable at server startup, you must supply a value; *the default base name is used only if the option is not actually specified*. If you specify the `relay_log_index` system variable at server startup without specifying a value, unexpected