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Alive

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Abstract

Alive record is device support for simple network ping include variable information. This paper handling alive and using alive for monitoring dynamic IOC.

1 What is alive?

Alive record was made by Dohn Arms to monitoring dynamic IOC. Alive module is device support for a simple network ping, and that using custom heartbeat protocol and external heartbeat-watching program. Alive send UDP packet every 15 second to a specified address and port. This UDP packet contains heartbeat counter, current time and so on. The record also opens a TCP port that allows receiving static information about the IOC. On the remote server, the UDP packets are collected by a daemon into a database to monitor the IOCs. The IP address is gotten from the packet itself.

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1.1 The structure of alive-1-0

```
aliveApp
   |-- Db
       |--
             alive.db
       ' __
             Makefile
   |-- Makefile
         ор
       |-- adl
       | '--
                 aliveRecord.adl
       |-- opi
          · __
                 aliveRecord.opi
           ui
                 aliveRecord.ui
         \operatorname{src}
       |-- aliveExMain.cpp
       |--
             aliveRecord.c
       |--
             aliveRecord.dbd
       |--
             aliveSupport.dbd
             Makefile
     configure
         CONFIG
         CONFIG_SITE
   |--
         Makefile
   |--
       RELEASE
   |-- RULES
   |--
         RULES_DIRS
   1--
         RULES.ioc
         RULES_TOP
   documentation
         aliveDoc.html
   |--
         aliveRecord.html
   |-- aliveRecord.png
         aliveReleaseNotes.html
         aliveServer.html
|-- iocBoot
   |-- iocaliveEx
     |-- Makefile
       |--
             README
       '--
           st.cmd
   '-- [namsh
                121] Makefile
     Makefile
     start_epics
```

1.2 Important alive module file

- EPICS Database alive.db
- MEDM display file aliveRecord.adl
- Record aliveRecord.html, aliveServer.html

http://www.aps.anl.gov/bcda/synApps/alive/aliveDoc.html