



LAUGHING BOY RECORDS

24 Track Digital Studio Model.



LINDAW

The main production machine, this is an AMD X2 multicore hosting Ardour 2 with FST for VST support and Multi-Track recording, Kontakt 2.1.1.1 hosted by both FST and VSTHOST, LINUXSAMPLER running with the QSAMPLER front end for .gig support, XJADEO for video synchronising via the JACK_TRANSPORT protocol, MHWAVEEDIT for audio editing, ZYNADDSUBFX for general synthesis work, AQUALUNG for various media transfers and playback, K3B and GCD MASTER for cd duping and burning, JAMIN for final master preparation, QJACKCTL for control of the JACK audio server and NETJACK for networking the JACK audio server between all machines. All audio is recorded onto a local HDD then archived onto a Raid 5 Linux server. A local disk for the sampler libraries is included.



MIDISAMPLER

This is the Midi production suite which specialises in Sampling and Midi performance. MusE is used for creating midi files, ROSEGARDEN is used for midi and scoring. KONTAKT 2.1.1.1, LINUXSAMPLER/QSAMPLER, ZYNADDSUBFX, QJACKCTL here also. Synchronising between the LINDAW and MIDISAMPLER machines is currently done using ARDOUR 2 as MTC master and JACK_TRANSPORT slave to MusE or ROSEGARDEN on this machine with ARDOUR 2 running as slave on LINDAW. All midi projects are recorded to a local HDD, then archived to a Linux Raid server. All samples streamed from a local HDD.



LINAS

The Linux Audio Server. This is the audio powerhouse in the system. Basically this machine simply hosts the 3 Hoontech C-Port audio cards which supplies the 24 audio channels I/O for the other 2 production machines. It is a simple AMD Sempron 2500+ customised to use XT-PIC real world interrupts for all 3 cards and the Intel gigabit NIC for clean NETJACK communication throughout the network. All LAN connections terminate at a quality gigabit switch.

All audio streams are connected to a BEHRINGER MX-9000 48-8-2 channel mixer, CME-UF8 and CME-UF5 keyboard controllers connected to MIDISAMPLER via usb, 2x Midiman 2x4 usb midi interfaces and monitored through a TANNON REVEAL near field system with Subwoofer. All machines are built upon a GENTOO live CD with customised 2.6.18-r7 real time kernel. Currently running JACK at 128 frame buffers for latency around 5 ms. 1 x-run with no drop-outs or audible artifacts of any kind over a 4 hour period of work..This system is currently in full production as of 12-1-2007. More information to follow as well as a short video showing the hardware in action (finally!). TODO: find a way to comfortably control JACK_TRANSPORT on LINAS whilst working on MIDISAMPLER. Due to NETJACK being unable to modify the order of Master/Slave machines, at the moment MTC is being used for sync. One solution would be a TRANSPORT(TM) controlling a local ARDOUR on LINAS. The X server may get a look in as well !



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