AR8327/AR8328 SSDK Release for DB12x LSDK 9.2.0.110

Two patch methods are provided in this release,

- Patch diff files + SSDK source + SSDK library files
- Compressed patched files

Patch files usage:

- Unpack the file db12x-9.2.0.110.s17.diff.tbz2, then patch the LSDK with the file db12x-9.2.0.110.s17.diff.
- Copy ssdk_ks_km.a and ssdk_ks_km_o.a into the LSDK directory linux/drivers/ethernet/phys/
- Unpack s17_ssdk_v1.0.4p1_lsdk.tbz2 in apps/ directory
- Recompile the LSDK by setting ETH_CONFIG=_s17
- ssdk_ks_km.a will be linked with the Ethernet driver module if CONFIG_NETFILTER is enabled; ssdk_ks_km_o.a will be linked if there is no Netfilter support

Compressed patched files:

- Simply uncompress the file db12x-9.2.0.110.s17.packed.tbz2 in the LSDK top directory. All necessary files will be put into their folders.
- Recompile the LSDK
- Ssdk will be automatically compiled with the provided build/scripts/db12x/Makefile.db12x
- Linux Netfilter will be turned on with the provided linux/kernels/mips-2.6.31/arch/mips/configs/db12x_defconfig

Test the S17 HNAT:

- Update images with Linux netfilter functions and with iptables package built in
- After the board reboots, execute the script /etc/s17_vlan_config.sh for splitting VLANs.
  - Uncomment the following lines in s17_vlan_config.sh before the executeion
  - *#brctl addif br0 eth0.1*
  - *#brctl addif br0 eth0.2*
  - *#ifconfig br0 192.168.1.2*
- Set Ethernet IPs for eth0.2 (WAN) and eth0.1 (LAN)

- Set iptables rules
  - Ex: *iptables -A POSTROUTING -t nat -o eth0.2 -j MASQUERADE*
- Try the connection from LAN to WAN by using 1xChariot or iperf (jperf). The throughput should be around 300Mbps (S/W only now)
- Fill in the WAN port MAC into the S17 HNAT engine to enable it
  - *ssdk_sh ip intfentry add 0 0 0x1ff 00-03-7F-FF-FF-FF yes no*
- Check for the throughput number. It may depend on the PCs connected to the board. The number is ~800Mbps with two Acer 1420P laptops (INTEL SU2300 Celeron CPU)

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