算能SC7 224T测试报告

1. 环境规格

	硬件	组件	详	青		
		处理器	Intel(R) Xeon(R) Gold 5218 Cl	PU @ 2.300	GHz	
	服务器	内存	125Gi		林少聪 1892	
(10.1	10.181.137)	^{●1992} 型号	DELL R740			
		CPU核数	64 MONTH 1892		林少聪 1892	
		操作系统	Ubuntu 22.04.4 LTS	林少聪 1892		林少聪 1892
	林少聪 ¹⁸⁹²	<u>型</u> 号	SC7 224T		林少聪 1892	
小照 1892 林少照 1892 -	显存	128GB LPDDR4x 1024bit	林少聯 1894		林少聪 1892	
		显存带宽	470GB/s	1 1 292	林少服 1892	1892
		接口规格	PCle Gen4 X16	11-910-101	- 007	AND BE LO
	ALC DI L	WD ⁹⁶⁰⁻¹⁶²²	单卡8芯合起来的算力如下	nt 1892	林少188 1022	74 1892
	GPU 👐	峰值算力	FP32: 14 TFLOPS			
		林少龍 1832	FP16/BF16: 112 TFLOPS			
		版 1892 	INT8: 224 TOPS	林少聪 1892		林少聪 1892
		TDP	300W			
		最大操作温	892 林少1版 1892			
	林少聪 1892	度	長少暦 1892 北少暦 1892		林少聪 1892	

2. 环境部署

2.1 驱动及软件包下载

从算能官网官网: https://developer.sophgo.com/site/index/material/all/all.html -> SDK-24.04.01

BM1684 & BM1684X	Linux						
v24.04.01	SDK	SDK-24.04.01			2024-07	7-01 × 1892	
v23.09 LTS SP3	24.04. 压缩包	01 版本SDK 以内的文件清单含有各模块简	i要说明		不 281 部少林	载	
and 1892							

2.2 硬件检查

服务器插卡后,可以通过以下命令检查加速卡是否安装正确。

1 lspci | grep 168

此时会看到置于该计算机内的 BM1684X 设备,即板卡上 对应的芯片个数。(SC7 FP150 对应六颗芯 片,SC7 224T 对应八颗芯片)

st-hpc-05:~#	≠lspci grep	168		
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
Processing	accelerators:	Device	1f1c:1686	(rev 01)
	st-hpc-05:~# Processing Processing Processing Processing Processing Processing Processing Processing Processing	st-hpc-05:~# lspci grep Processing accelerators: Processing accelerators: Processing accelerators: Processing accelerators: Processing accelerators: Processing accelerators: Processing accelerators: Processing accelerators: Processing accelerators:	st-hpc-05:~# lspci grep 168 Processing accelerators: Device Processing accelerators: Device	st-hpc-05:~# lspci grep 168 Processing accelerators: Device 1f1c:1686 Processing accelerators: Device 1f1c:1686

2.3 驱动+软件栈安装

安装依赖库,只需要执行一次:
 sudo apt install dkms libncurses5
 # 安装libsophon:
 sudo dpkg -i sophon-driver_0.5.1_amd64.deb
 sudo dpkg -i sophon-libsophon_0.5.1_amd64.deb
 # 在终端执行如下命令,或者登出再登入当前用户后即可使用bm-smi等命令:
 source /etc/profile

2.4 资源监控

安装完成后使用bm-smi命令进行检查驱动是否安装成功。

Lib V	/ersion:	0.5	.1		Driv	er Ve	rsion:	0.5.1					
card 12V_AT	Name X MaxP	Mode boardP	Minclk	SN Maxclk	Fan	+ TPU Bus-	boardT ID	chipT Status	TPU_P Currcl	TPU_V C TPU	ECC J_C	CorrectN 1 Memory-Usage	rpu-Util
0 SC 8434mA	C7-224T 300W	PCIE 101W	HQDZW5 25M	9BDJEJD 875M	9078 N/A	 0 000:	33C 3d:00.0	42C Active	4.9W 875M	836mV 5	0FF .9A	N/A 81MB/14787N	0% 1B
少聪 1892						1 000::	42C 3e:00.0	44C Active	3.4W 875M	843mV 4	0FF .0A	N/A 81MB/14787N	0% 1B
						2	44C 3f:00.0	46C Active	3.4W 875M	843mV 4	0FF .0A	N/A 81MB/14787N	0% 1B∋ ^{⊛ 1892}
少聪 1892						3 000:	40C 40:00.0	43C Active	4.9W 875M	836mV 5	0FF .9A	N/A 81MB/14787N	0% 1B
						4 000:4	∞42C 41:00.0	46C Active	3.4W 875M	843mV 4	0FF 1A	N/A 81MB/14787N	0% 1B
少聪 1892						5 000:	46C 42:00.0	⁸⁰ 46C Active	3.4W 875M	843mV 4	0FF .0A	N/A ¹⁰⁰⁰ 81MB/14787N	0% 1B
						6 000:	⁰² 43C 43:00.0	47C Active	5.1W 875M	836mV 6	0FF 1A	N/A 81MB/14787N	0% 18
小聪 1892		林少聪 1853		14. ⁰¹	9 1994 1994	7 000:	47C 44:00.0	46C Active	5.1W 875M	835mV 6	0FF 1A	N/A 81MB/14787N	0% 1B
													W.2.
Proce TPU-	esses: ID	PID	Proces	s name								M ²⁰⁰ TPU Usag	Memory ge

3. Qwen2-7b测试

3.1 环境安装

1. 创建虚拟环境

1 python3 -m venv sc7_venv

这里 sc7_venv 是你虚拟环境的名称,你可以根据需要更改。

2. 激活虚拟环境

1 source /home/lsc/SC7/sc7_venv/bin/activate

激活后,你会看到命令提示符前面有(sc7_venv),表示你已进入虚拟环境。

3. 安装依赖

在虚拟环境中,你可以使用 pip 安装所需的包。例如:

- 1 sudo apt-get update
- 2 pip3 install transformers_stream_generator einops tiktoken accelerate gradio transformers==4.41.2
- 3 pip3 install pybind11[global]

4. 退出虚拟环境 (测试完再退出)

当你完成工作后,可以使用以下命令退出虚拟环境:

- 1 # 可选,测试完再退出
- 2 deactivate

5. 下载bmodel

- 1 pip3 install dfss
- 2 python3 -m dfss --url=open@sophgo.com:/ext_model_information/LLM/LLM-TPU/qwen2-7b_int4_seq8192_1dev.bmodel

6. 编译chat.cpp

```
1 cd /home/lsc/SC7/LLM-TPU/models/Qwen2/python_demo/
2 mkdir build
3 cd build && cmake .. && make && cp *cpython* .. && cd ..
```

3.2 seq8192_1dev模型测试

7. 执行推理--CLI方式

```
1 python3 pipeline.py --model_path /home/lsc/SC7/bmodels/qwen2-
7b_int4_seq8192_1dev.bmodel --tokenizer_path ../support/token_config/ --devid
0 --generation_mode greedy
```



Done!

Load Time: 54.556 s

1. If you want to quit, please enter one of [q, quit, exit] 2. To create a new chat session, please enter one of [clear, new]

Question: how are you!

Answer: As an AI, I don't have feelings, but I'm here and ready to assist you. How can I help you today? FTL: 15.461 s TPS: 7.863 token/s

Question: who is the president of usa?

```
Answer: As of now, the President of the United States is Joe Biden. He took office on January 20, 2021.
FTL: 15.410 s
TPS: 7.874 token/s
```

Question: q

更新动态bmodel后:

1 python3 pipeline.py --model path /home/lsc/SC7/bmodels/gwen2-7b int4 seq8192 1dev dyn.bmodel --tokenizer path ../support/token config/ -devid 0 --generation_mode greedy

(sc7_venv ls/qwen2- Load/s Device [) root@tes 7b_int4_se upport/tok 0] loadin	t-hpc-05:// q8192_1dev en_config/ g	nome/lsc/SC7 _dyn.bmodel 	7/LLM-TPU/m tokenize	odels/Qwen2, r_path/su	/python_dem upport/toke	o# python3 1_config/	pipeline.p devid 0 -	ymodel_p -generation	oath /home/ n_mode gree	lsc/SC7/bmode dy
open user Model[/ho Done!	cpu.so, in me/lsc/SC7	it user_cpu /bmodels/qu	ı_init ^{a 1887} wen2-7b_int4	1_seq8192_1	.dev_dyn.bmoo	del] loadin	₩ ^J \$ ^{\$\$} 1892				
Load Time	: 3.896 s										
1. If you 2. To cre	want to q ate a new	uit, pleaso chat sessio	e enter one on, please e	of [q, qui enter one o	t, exit] f [clear, ne	ew]					
Question:	how are y	ou !									
Answer: A FTL: 0.77 TPS: 7.90	s an AI, I 8 s 8 token/s	don't have	e feelings,	but I'm he	re to help y	you. How ca	ı I assist	you today?			
Question:	who is th	e presiden	t of usa?								
Answer: A FTL: 0.78 TPS: 7.91	s of my la 5 s 3 token/s	st update :	in October 2	2021, the P	President of	the United	States is	Joe Biden.			
Question:	,q	· • • • • • • • • • • • • • • • • • • •	(] (0.07		1 1 10 0	1892		1892		1892	
3.3 s	eq81	92_2d	ev模型	』 测试							
<mark>7</mark> . 执行	テ推理C	LI方式									
1 2 3 4	# 以下和 cd /ho git su cd /ho	命令只需氨 me/lsc/s bmodule me/lsc/s	<i>第一次执行</i> SC7/LLM- update SC7/LLM-	,不需要 TPU/ init TPU/mode	重复执行 els/Qwen2	2/python	_demo_p	arallel/	林少職 1892 • 林少職 1892		
1892 5	mkdir	build									
6	<mark>cd</mark> bui	ld && cr	make	&& make	-j8 && (cp *cpyt	hon*	&& <mark>cd</mark> .	•		
8	# 执行	多芯推理	H/018 1892								
10	python 7b_int	-HSN 6: 3 pipel [:] 4_seq819	ine.py - 92_2dev.	-model_µ bmodel -	oath /hom tokeniz	ne/lsc/S zer_path	C7/bmod /sup	els/qwer port/toł	n2- ken_conf	ig/de	evid
	0,1										

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林少ቘ 1892 林少ቘ 1892 林少ቘ 1892 林少ቘ 1892 林少ቘ 1892 林少ቘ 1892

林小霞1894 林小霞1894 林小霞1894 林小霞1894 林小霞1894 林小霞1894



7b_int4_seq8192_2dev_dyn.bmodel --tokenizer_path ../support/token_config/ -devid 0,1

7. 执行推理--CLI方式

1	# 以下命令只需第一次执行,不需要	重复执行					
2	<pre>cd /home/lsc/SC7/LLM-TPU/</pre>						
3	git submodule updateinit						
4	<pre>cd /home/lsc/SC7/LLM-TPU/mod</pre>	els/Qwen2	/python_	demo_paralle	l/		
5	cd build && cmake && make	-j8 && <mark>c</mark>	p *cpyth	on* && <mark>cd</mark>	••		
6							
7	# 执行多芯推理						
8	ulimit -HSn 65536						
9	python3 pipeline.pymodel_	path /hom	e/lsc/SC	7/bmodels/qw	en2-		
	7b_int4_seq8192_4dev.bmodel	tokeniz	er_path	/support/t	oken_confi	g/de	vid
	0,1,2,3						

<pre>(sc7_venv) root@test-hpc-(seq8192_4dev.bmodeltokk python3: can't open file (sc7_venv) root@test-hpc-((sc7_venv) root@test-hpc-(ome/lsc/SC7/bmodels/qwen2- Load/support/token_con Device [0 1 2 3] loading open usercpu.so, init use</pre>	<pre>DS:/home/lsc/SC7/LLM- enizer_path/suppor '/home/lsc/SC7/LLM-TF DS:/home/lsc/SC7/LLM- DS:/home/lsc/SC7/LLM- DS:/home/lsc/SC7/LLM- Tb_int4_seq8192_4dev fig/ g g</pre>	-TPU# python3 pipel: rt/token_config/(PU/pipeline.py': [E -TPU# cd /home/ls/9 -TPU/models/Qwen2/py v.bmodeltokenize	ine.pymodel_path devid 0,1,2,3 rrno 2] No such fil SC7/LLM-TPU/models/ /thon_demo_parallel r_path/support/t	/home/lsc/SC7/bmode e or directory Qwen2/python_demo_pa # python3 pipeline.p oken_config/devid	ls/qwen2-7b_int4_ rallel/ ymodel_path /h 0,1,2,3
Model[/home/lsc/SC7/bmode] Done!	s/qwen2-7b_int4_seqtالع الع	8192_4dev.bmodel] lo	bading		
Load Time: 52.313 s					
1. If you want to quit, p 2. To create a new chat se	lease enter one of [c ession, please enter	q, quit, exit] one of [clear, new	= #1592***		
Question: how are you!					
Answer: As an AI, I don't FTL: 6.979 s	have feelings, but 1	I'm here and ready f	to assist you. How	can I help you today	?
TPS: 20.938 token/s					
Question: who is the pres	ident of usa?				
Answer: As of 2023, the Pi FTL: 6.985 s	resident of the Unite	ed States is Joe Bio	den. He took office	on January 20, 2021	•
TPS: 21.335 token/s Ouestion:					
1892	林少聪 1892	1. 林少聪18	92.	1892 林少聪	1892
更新动态bmodel后:					
林少聪 1892	林少聪 1892				
/b_1nt4_seq8 devid 0,1,2,3	192_4dev_dyn.bm 3	odeltokeniz	er_path/sup	port/token_conf	1g/
<pre>(sc7_venv) root@test-hpc-05: SC7/bmodels/qwen2-7b_int4_se Load/support/token_config Device [0 1 2 3] loading open usercpu.so, init user_c Model[/home/lsc/SC7/bmodels, Done!</pre>	//home/lsc/SC7/LLM-TPU eq8192_4dev_dyn.bmodel g/ cpu_init /qwen2-7b_int4_seq8192	//models/Qwen2/python tokenizer_path 2_4dev_dyn.bmodel] lo	_demo_parallel# pyth /support/token_confi ading	on3 pipeline.pymode g/devid 0,1,2,3	el_path /home/lsc/
Load Time: 9.253 s					林少聪 1892
1. If you want to quit, plea 2. To create a new chat sess	ase enter one of [q, q sion, please enter one	uit, exit] of [clear, new]			⁷⁸⁹ 5
Question: how are you!					林少聪 1892
Answer: As an AI, I don't ha FTL: 2.683 s TPS: 20.567 token/s	ave feelings, but I'm	here and ready to as	sist you. How can I	help you today?	7893
Question: who is the preside	ent of usa?				1892
Answer: As of 2023, the Pres FTL: 2.693 s TPS: 22.381 token/s	sident of the United S	itates is Joe Biden.	He took office on Ja	nuary 20, 2021.	1891 M.S. 2
Question: q					
3.5 seq8192_8	dev模型测试	と 林少郡 18			

7. 执行推理--CLI方式

2	<pre>cd /home/lsc/SC7,</pre>	/LLM-TPU/					
3	git submodule upo	dateinit					
4	<pre>cd /home/lsc/SC7,</pre>	/LLM-TPU/mode	ls/Qwen2/pyth	non_demo_par	allel/ *********		
5	cd build && cmake	e && make	-j8 && cp *c	oython* &	« cd		
6	# 执行多芯推理						
7	ulimit -HSn 65530	6 #可选					
8	python3 pipeline	.pymodel_p	oath /home/lso	c/SC7/bmodel	.s/qwen2-		
	7b_int4_seq8192_8	3dev_static.b	modeltoker	nizer_path .	./support/tok	en_confi	ig/
	devid 0,1,2,3,4,5	5,6,7					
(sc7_ven) (sc7_ven)	<pre>v) root@test-hpc-05:/home/ v) root@test-hpc-05:/home/</pre>	lsc/SC7/LLM-TPU/mod lsc/SC7/LLM-TPU/mod	dels/Qwen2/python_d dels/Qwen2/python_d	emo_parallel# uli emo parallel# pyt	mit -HSn 65536 chon3 pipeline.py	model path	/home/lsc/SC7
/bmodels, Load/	/qwen2-7b_int4_seq8192_8de support/token config/	v_static.bmodel	tokenizer_path/s	upport/token_conf	fig/devid 0,1,2,3	,4,5,6,7	
Special Device [tokens have been added in 0 1 2 3 4 5 6 7] loading	the vocabulary, ma	ke sure the associa	ted word embeddir	ngs are fine-tuned o	r trained.	
open use Model[/h	rcpu.so, init user_cpu_ini ome/lsc/SC7/bmodels/qwen2-	t 7b_int4_seq8192_8de	ev_static.bmodel] l	oading			
Done!							
Load Time	e: 12.164 s						
1. If you	u want to quit, please ent	er one of [q, quit					
2. To cro	eate a new chat session, p =======	lease enter one of =======	[clear, new]				
Question	: how are you!						
Answer:	As an AI, I don't have fee	lings, but I'm here	e and ready to assi	st you. How can]	[help you today?		
TPS: 36.	760 token/s						
Question	: who is the president of	usa?					
Answer:	As of 2023, the President	of the United State	es is Joe Biden. He	took office on 3	January 20, 2021.		
TPS: 37.0	019 token/s						
Question	:	AV 2	N// 2				4
⊿⊹te	ᇦᆤᇭᇊᄮᇊᆘᄷᇚᆉᅷᇴᄵᇩᄻ				林少聪 1892		
4心异音	f按FAE临时力杀修复	尼加和的问题	云,吞吐下降	,许见问题4	•		
1 芯	ビー いんしょう しんしょう しんしょ しんしょ	雷罟宏左哭	远行				
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allie 2 🗠	Attanta in the second s	『作王/丁 hit)!//テルタコケ・ - +	林少聪 1655				
Z.i吧	4心喉空需安刈驱药	UN月11F1110以:1	С				

libbmrt.so.1.0和libbmrt.a复制到/opt/ sophon/libsophon-current/lib/



1 python3 pipeline.py --model_path /home/lsc/SC7/bmodels/qwen2-7b_int4_seq8192_8dev_dyn.bmodel --tokenizer_path ../support/token_config/ -devid 0,1,2,3,4,5,6,7

3.6 性能测试数据汇总

	Output tokens_per_second (TPS)(token/s)	latency_per_toke n(TPOT)(ms)	first_token (TTFT)(ms)	Benchmark duration(s)
 dev_num = 1 input_len = 8192 	7.907	NA 1892	15413	NA 1892
3. INT4		林少聪 1892		
 dev_num = 2 input_len = 8192 	14.669	NA 1992	10475	NA 1992 1992
3. INT4		1892 林少聪 1892		
1. dev_num = 4	21.335	NA MARKA	6985	NA 1892

2. input_len =	1892 林少雅 1892	林少聪 189	2		林少聪 1892	
8192 3. INT4	林少形 1892	林少期 1892	林少聪 1892		¥ 1892	林少聪 1892
1. dev_num = 8	37.019	NA		8009	NA	
2. input_len =	林少聪 1892	林少聪 1892	林少聪 1892		聯 1892	林少聪 1892
8192	1892 林少聪 1892	林少聪 189	2		林少聪 1892	
3. INT4			ant 1.892			1892

4. Qwen2-14b VLLM测试(在算能工作站上测试)

4.1 基于vLLM在线推理功能测试

1. 进入容器,并启动一个基于 OpenAl 的 API 服务器。

1	# 进入容							
2	./docke	r_run.sh						
3								
NO 18 1892 4	# FP16							
5	python3	-m vllm.entry	points.op	enai.api_	server	$\langle \rangle$		
6		model /work	space/qwe	n14b-bmod	lel/con	fig \		
7		device 'aut	o' \					
8		host 0.0.0.	0 \					
9		trust-remot	e-code \					
10		port 8080 \						
11		enforce-eag	er					

2. 打开另外一个终端,发送客户端请求。

注: 下面IP需要替换为对应服务器IP

1 # FP16 2 curl http://172.18.97.235:8080/v1/completions \ 3 -H "Content-Type: application/json" \ 4 −d '{ 5 "model": "/workspace/qwen14b-bmodel/config", 6 "prompt": "如何制作月饼", 7 "max_tokens": 256, 8 "temperature": 0.01 9 }' 10



4.2 基于vLLM在线推理功能测试(自定义数据集)(!!! 测试未通过 !!!)

- 1. 用以下文件替换/home/sn/SC7/SC7/vllm/benchmarks/benchmark_serving.py文件
- benchmark_serving.py
- 2. 继续沿用上面容器,启动服务端。
 - 1 # 启动server端服务
 - 2 cd inference_scripts/
 - 3 ./run_openai_api_server_gn.sh

附录: run_openai_api_server_gn.sh

run_openai_api_server_gn.sh

3. 打开另一个终端,并进入同个容器,启动客户端发送请求。

```
1 # 进入容器
2 ./docker_run.sh
3
4 # 执行client请求
```

- 5 cd inference_scripts/
- 6 ./run_openai_api_client_gn.sh

附录: run_openai_api_client_gn.sh

- run_openai_api_client_gn.sh
- o input.json

林少期1892 林少期1892 林少期1892 林少期1892 林少期1892 林少期1892 林少期1892

4. 测试结果如下:

INF0:	林少联	127.	0.0.	1:5777	8 -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	林少聪 1892
INF0:		127.	0.0.	1:5779	- 00	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5779	2 -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5780	- 8("POST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5781	<u>4</u> -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5782	- 8	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5783	34 -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5774	6 -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5774	8 -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	
INF0:		127.	0.0.	1:5776	i2° -	"P0ST	/v1/completions	HTTP/1.1"	400	Bad	Request	

Namespace(backend='vllm', base url=None	e, host='0.0.0.	0', port=12345,	endpoint='/v	/1/completions',	dataset='/wo	<pre>rkspace/dat</pre>
aset/input.ison'. dataset name='sharequ	ot', dataset pa	th=None. model='	/workspace/d	wen14b-bmodel/co	nfia', token:	izer='/work
<pre>space/gwen14b-bmodel/config', best of=</pre>	1. use beam sea	rch=False, num p	rompts=10, s	shareapt output l	en=4000. son	net input l
en=550, sonnet output len=150, sonnet i	prefix len=200,	request rate=in	f, seed=0, t	rust remote code	=True, disab	le todm=Fal
se, save result=False, metadata=None,	result_dir=None	1892 -				***小服第1892
WARNING 09-13 09:17:26 tokenizer.py:64	Using a slow	tokenizer. This	might cause	a significant sl	owdown, Cons:	ider using
a fast tokenizer instead.	- J		5	3		5
/workspace/vllm/benchmarks/benchmark se	erving.py:644:	UserWarning: [©] The	'dataset'	argument will b	e deprecated	in the nex
t release. Please use 'dataset-name'	and 'dataset	-path' in the fu	ture runs.			
nromnt len: 3076						- 0
prompt_len: 4280						林少聪 1894
prompt len: 4115						
prompt len: 4211						
prompt len: 2656						
promptlen: 3657						
promptlen: 3274						
prompt len: 4375						1892
promptlen: 2208						AND AD
promptlen: 3217						
Traffic request rate: inf						
100%	11.2 million	111-2		10/10 [00:00<00:00,	63.68it/s]
======================================						
Successful requests:	Θ					- 087
Benchmark duration (s):	0.16					林少聪 1032
Total input tokens:	Θ					
Total generated tokens:	0					
Request throughput (req/s):	0.00					
Input token throughput (tok/s)	0.00					
Output token throughput (tok/s):	0.00					
Output throughput is zero, cannot calcu	ilate latency p	er token.				**小聪 1892
Mana TTET (ma):	0.00					$d_{1L} >$
Median TTET (ms):	0.00					
	0.00					
F99 IIFI (MS);	tokon)					
Mean TPOT (ms)						
Median TPOT (ms):	0.00					1892
P99 TP0T (ms):	0.00					1412 ro
<pre>root@workstation:/workspace/inference_s</pre>	scripts#					

4.3 基于vLLM在线推理性能测试

1. 用以下文件替换/home/sn/SC7/SC7/vllm/benchmarks/benchmark_serving.py文件

2. 继续沿用上面容器,启动服务端。

1 # 启动server端服务

- 2 cd inference_scripts/
- 3 ./run_openai_api_server_xn.sh

```
附录: run_openai_api_server_xn.sh
```

run_openai_api_server_xn.sh

3. 打开另一个终端,并进入同个容器,启动客户端发送请求。

1 # 进入容器 2 ./docker_run.sh 3 4 # 执行client请求

- 5 cd inference_scripts
- 6 ./run_openai_api_client_xn.sh

附录: run_openai_api_client_xn.sh

💀 run_openai_api_client_xn.sh

4. 测试结果截图及记录:

a. batch size = 1; input_len = 2048; output_len = 256; FP16

Namespace(backend='vllm', base_url= ataset/ShareGPT_V3_unfiltered_cleanu -bmodel/config', tokenizer='/workspa _input_len=2048, sharegpt_output_len te=inf, seed=0, trust_remote_code=Ti WARNING 09-13 10:44:01 tokenizer.py a fast tokenizer instead. /workspace/vllm/benchmarks/benchmark t release. Please use 'dataset-nam main(args) first 2217 Traffic_request_rate: inf	None, host='localhos ed_split.json', data ace/qwen14b-bmodel/c n=256, sonnet_input_ rue, disable_tqdm=Fa 64] Using a slow to c_serving.py:634: Us ne' and 'dataset-p	t', port=12 set_name='s onfig', bes len=550, so lse, save_r kenizer. Th erWarning: ath' in the	345, endpo haregpt', t_of=1, us nnet_outpu esult=Fals is might c The 'dat future ru	int='/v1/cd dataset_pa e_beam_sea t_len=150, e, metadata ause a sigu aset' argun ns.	ompletions' th=None, mo rch=False, sonnet_pre a=None, res nificant sl ment will b	, dataset= del='/work num_prompt fix_len=200 ult_dir=Non owdown. Con e deprecate	'/workspace/d space/qwen14b s=1, sharegpt 0, request_ra ne) nsider using ed in the nex
	77.02e/i+1 1892						1892
256	[[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]						林少物
======================================	t =======						
Successful requests: 1002	1 ⁹²						
Benchmark duration (s):	77.02						Ť
Total input tokens:	2048						
Total generated tokens:	256						
Request throughput (reg/s):	0.01 300^{18} 189^{2}						林少聪 1892
Input token throughput (tok/s):	26.59						44.2
Output token throughput (tok/s):	3.32						
latency per token (ms):	300.86						X
Time to First Token-							
Mean TTFT (ms):	11034.38						
Median TTFT (ms):	11034.38						1892
P99 TTFT (ms):	11034.38						林少略工
Time per Output Token (excl. 1s	st token)						
Mean TPOT (ms):	258.76						
Median TPOT (ms):	258.76						X
P99 TP0T (ms):	258.76						

b. batch size = 2; input_len = 2048; output_len = 256; FP16

a fast tokenizer instead. /workspace/vllm/benchmarks/benchmark_serving.py:634: UserWarning: The '--dataset' argument will be deprecated in the nex release. Please use '--dataset-name' and '--dataset-path' in the future runs. main(args) first 2217 first 2219 Traffic request rate: inf 100%|______| 2/2 [02:37<00:00, 78.84s/it]^[[C 256 256 == Serving Benchmark Result == Successful requests Benchmark duration (s): 157.68 Total input tokens: 4096 Total generated tokens: 512 Request throughput (req/s): 0.01 Input token throughput (tok/s): 25.98 Output token throughput (tok/s): 3.25 latency per token (ms): 615,94 ·····Time to First Token-----Mean TTFT (ms): 51042.91 Median TTFT (ms): 51042.91 P99 TTFT (ms): 89446.74 ----Time per Output Token (excl. 1st token)-----Mean TPOT (ms): 262.05 Median TPOT (ms): 262.05 999 TPOT (ms): 264.45

c. batch size = 4; input_len = 2048; output_len = 256; FP16

ataset/ShareGPT_V3_unfiltered_cleaned_split.json', dataset_name='sharegpt', dataset_path=None, model='/workspace/qwen14b -bmodel/config', tokenizer='/workspace/qwen14b-bmodel/config', best_of=1, use_beam_search=False, num_prompts=4, sharegpt _input_len=2048, sharegpt_output_len=256, sonnet_input_len=550, sonnet_output_len=150, sonnet_prefix_len=200, request_ra te=inf, seed=0, trust_remote_code=True, disable_tqdm=False, save_result=False, metadata=None, result_dir=None) WARNING 09-13 11:12:41 tokenizer.py:64] Using a slow tokenizer. This might cause a significant slowdown. Consider using o_fact tokenizer_instead a fast tokenizer instead. /workspace/vllm/benchmarks/benchmark_serving.py:634: UserWarning: The '--dataset' argument will be deprecated in the nex t release. Please use '--dataset-name' and '--dataset-path' in the future runs. main(args) g this sequence tength is longer than the specified maximu g this sequence through the model will result in indexing errors first 2217 first 2219 first 2269 Token indices sequence length is longer than the specified maximum sequence length for this model (20464 > 8192). Runnin first 2181 Traffic request rate: inf | 4/4 [05:32<00:00, 83.12s/it] 100%256 256 256 256 == Serving Benchmark Result == Successful requests: Benchmark duration (s): 332.50 Total input tokens: 8192 Total generated tokens: Request throughput (req/s): 1024 0.01 Input token throughput (tok/s): 24.64 Output token throughput (tok/s): 3.08 latency per token (ms): 1298.82 -----Time to First Token-----Mean TTFT (ms): 136481.77 Median TTFT (ms): 136334.92 P99 TTFT (ms): 258531.71 -----Time per Output Token (excl. 1st token)----Mean TPOT (ms): 276.85 Median TPOT (ms): 276.44 P99 TPOT (ms): 280.20

d. batch size = 8; input_len = 2048; output_len = 256; FP16

Token indices sequence length is	s longer than the speci	fied maximum	sequence	length for	this model	(20464 >	8192). Runni
g this sequence through the mode	el will result in index	ing errors					
first 2217							
first 2219							
first 2269							
first 2181							
first 2229							
first 224/							
first 2151							
Traffic request rate, inf							
100% 100 request rate. 111	00 88 16c/i+1						
256	00, 00.103/10]						
256							
256							
256							
256							
256							
256							
256							
======================================	Result ==========						
Successful requests:	M 2 1 8						
Benchmark duration (s):	705.25						
Total input tokens:	16384						
lotal generated tokens:	2048						
Request throughput (req/s):	0.01						
Input token throughput (tok/s):	23,23						
latoncy por tokon (ms)	2754 80						
Time to First Tol	2734:09 ken						
Mean TTFT (ms):	317657.95						
Median TTFT (ms):	316387.09						
P99 TTFT (ms):	619996,15						
Time per Output Token (exc)	l. 1st token)						
Mean TPOT (ms):	295.85						
Median TPOT (ms):	295.28						
P99 TP0T (ms):	309.24						

4.4 基于VLLM性能测试数据汇总

	W.2 T		<u> </u>		NN 2 11	1N-2 **		2A-2
	Output tokens_per_; (TPS)(tok/s)	second		latency_per n(TPOT)(toke ms)	first_token (TTFT)(ms)	Benchmark duration(s)	
1. batch size = 1	3.32	林少聪 1892		258.76		11034.38	77.02	
2. input_len = 2048	林少聪 1892							
3. output_len = 256	」第 1894 1892							
4. FP16	U# 1892							
 batch size = 2 input_len = 	3.25			262.05		51042.91	157.68	
2048 3. output_len = 256	1892 林少聪 1892							
4. FP16	以前 1892							
1. batch size = 4	3.08 1000 1002		林少聪	276.85	林少聪 1892	136481.77	332.50	林少聪 1892
2. input_len = 2048	1892 1892							

3. output_len =	189 ²				林少聪 1892	
4. FP16	林少聪 1892				1892	林少聪 1892
1. batch size = 8	2.90	林少聪 1892	295.85	317657.95	705.25	
2. input_len =	林少聪 1892				±1892	林少聪 1892
2048	電 1892				林少聪 1892	
3. output_len =						
256	林少聪 1892				# 1894	林少聪 1892
4. FP16	HE 1892				林少聪 1892	

5. 基于bge_large、bge_reranker部署的文档对话类RAG项目 ChatDoc-TPU

5.1介绍

该项目的主要目标是通过使用自然语言来简化与文档的交互,并提取有价值的信息。此项目使用 LangChain、ChatGLM3-TPU或QWEN-TPU构建,以向用户提供流畅自然的对话体验。

以 ChatGPT 为例(可替换为其他LLM,本仓库已支持 Chatglm3-6B 和 Qwen-7B,需要保证接口一 致),本地知识库问答流程如下:



<mark>5.2</mark> 特点

- 完全本地推理。
- 支持多种文档格式PDF, DOCX, TXT。
- 与文档内容进行聊天,提出问题根据文档获得相关答案。
- 用户友好的界面,确保流畅的交互。

5.3 环境安装

```
1 # 项目代码clone
2 git clone https://github.com/JackeyTakumi/ChatDoc-TPU.git
3
4 # 安装第三方库
5 cd ChatDoc-TPU
6 # 考虑到 langchain 和 sail 版本依赖,推荐在 python>=3.8 环境运行
7 sudo apt update
8 sudo apt install libgl1-mesa-glx libcairo2-dev
```

9	9 pip3 install -r requirements.txt -i https://pypi.tuna.tsinghua.edu.cn/simple											
	&& pip3 uninstall torchvision											
10												
11	# 安装sail											
12	# 2.1节从算能官网下载的SDK包含so	phon-sail_3.8.0	.tar.gz安装包									
13	# 下载SOPHON-SAIL源码,解压后进入	其源码目录										
14	cd /home/lsc/SC7/SDK/SDK-24.04	1.01/sophon-sai	_20240606_0854	00/sophon-sail/								
15	# 创建编译文件夹build,并进入buil	d文件夹 1000 1892										
16	m <mark>kdir</mark> build && <mark>cd</mark> build											
17	# 执行编译命令											
18	<pre>cmake -DONLY_RUNTIME=ON</pre>											
19	make pysail											
20	# 打包生成python wheel,生成的wh	eel包的路径为'py	thon/pcie/dist'	,文件名为'sophon	林心聪 1892							
	3.8.0-py3-none-any.whl'											
21	cd/python/pcie											
22	<pre>chmod +x sophon_pcie_whl.sh</pre>											
23	./sophon_pcie_whl.sh											
24	# 安装python wheel											
25	pip3 install ./dist/sophon-3.8	3.0-py3-none-any	.whlforce-r	einstall								

5.4 启动

- 1 # 回到ChatDoc-TPU主目录,启动程序,模型和配置文件自动下载,使用默认路径
 - 2 ./run.sh --dev_id 0
 - 1 usage: ./run.sh [--dev_id DEV_ID] [--server_address SERVER_ADDRESS] [-server_port SERVER_PORT] [--chip CHIP]
 - 2 --dev_id: 用于推理的 TPU 设备 ID。默认为 0。
 - 3 --server_address: web server 地址。默认为 "0.0.0.0"。
 - 4 --server_port: web sever 端口。如不设置,从 8501 起自动分配。
 - 5 --chip:需要下载模型对应的芯片类型。如不设置,默认为bm1684x。



启动后您可以通过浏览器打开,URL: http://{host_ip}:8501,host_ip为启动ChatDoc的设备IP,或者 您通过参数设置的server_address。

(sc7_venv) root@test-hpc-05:/home/lsc/SC7	/ChatDoc - TPU	l# ./run.shde	v_id 1	AM 12 12 2012
++ which unzip				
+ res=/usr/bin/unzip				
+ '[' 0 '!=' 0 ']'				
+ pip3 install dfss -i <u>https://pypi.tuna.</u>	<u>tsinghua.edu</u>	<u>.cn/simple</u> up	grade	
Looking in indexes: <u>https://pypi.tuna.tsi</u>	<u>Inghua.edu.cn</u>	/simple		
Requirement already satisfied: dfss in /h	nome/lsc/SC7/	/sc7_venv/lib/py	thon3.10/site-p	ackages (1.7.11)
+ llm_model=qwen7b				
+ dev_id=0				
+ server_address=0.0.0.0				
+ server_port=				
+ chip=bm1684x				
+ parse_argsdev_id 1				
+ [[2 -gt 0]]				
+ key=dev_id				
+ case \$key in				
+ dev_id=1				
+ shift 2				
+ [[0 -gt 0]]				
+ '[' '!' -d /root/nltk_data ']'				
+ echo '/root/nltk_dat already exist'				
/root/nltk_dat already exist				
+ '[' '!' -d ./models/bert_model ']'ouse				
+ echo 'bert_model already exist'				
bert_model already exist				
+ '[' '!' -d ./models/reranker_model ']'				
+ echo 'reranker_model already exist'				
reranker_model already exist				
+ export LLM_MODEL=qwen7b				
+ LLM_MODEL=qwen7b				
+ export DEVICE_ID=1				
+ DEVICE_ID=1				
+ '[' '' == '' ']'				
+ streamlit run web_demo_st.pyserver.a	address 0.0.0	.0.892		
You can now view your Streamlit app in	your browser			
1892 HUD 82 1892				
URL: http://0.0.0.0:8501				
		- 002	- 002	

5.5 启动chatglm3大模型接口服务

- 1 #下载chatglm3项目包openai_api_demo.zip并解压
- 2 cd /home/lsc/SC7/openai_api_demo/
- 3 # 下载模型和token_config
- 4 ./scripts/download.sh --chip bm1684x

- 5 # 安装依赖
- 6 pip3 install -r requirements.txt
- 7 # 运行程序
- 8 python3 api_server.py --model chatglm3

(sc7_	venv) root@test-hpc-05:/home/lsc	/SC7/openai_api_demo# p	ython3 api_server.p	ymodel chatglm3	$d_{10} \sim$
open	usercpu.so, init user_cpu_init				
INF0:	Started server process [873	537] ****			
INF0:	Waiting for application sta	rtup.			
INF0:	Application startup complet	e.			
INF0:	Uvicorn running on http://0	.0.0.0:18080 (Press CTR	L+C to quit)		
INF0:	127.0.0.1:51856 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:60778 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:50270 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:46158 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:49650 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:56820 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:40198 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:53918 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:57364 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:36416 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
INF0:	127.0.0.1:43480 - "POST /v1	/chat/completions HTTP/	1.1" 200 OK		
^CINF	0: Shutting down				
INF0:	Waiting for application shu	tdown.			
INF0:	Application shutdown comple	te 1392			
INF0:	Finished server process [87	3537]			
(sc7_	venv) root@test-hpc-05:/home/lsc	/SC7/openai_api_demo# p	ython3 api_server.p	ymodel chatglm3	
open	usercpu.so, init user_cpu_init				
INF0:	Started server process [930	939]			
INF0:	Waiting for application sta	rtup.			
INF0:	Application startup complet	er: 1892			
INF0:	Uvicorn running on http://0	.0.0.0:18080 (Press CTR	L+C to quit)		
INF0:	127.0.0.1:49914 - "POST /v1	/chat/completions_HTTP/	1.1" 200 OK		

5.6 操作说明

1. 点击Browse files选择要上传的文档,然后点击添加知识库。随后将embedding文档,完成后文档 将被选中,接着就可开始对话。我们可重复上传文档,embedding成功的文档均会进入知识库。

← → C ▲	不安全 10.110.181.137:8	3501					९ 🕁 🚨	
林少	藏 1892	林少聪 1892	林少聪 1892	林少聪 1892	林少聪 1892			
💬 ChatDoc-T	PU NO 1892		林少聪1					
选择大语言模型			😐 嗨!					
chatglm3	× 1892		林少職1892					
上传一个文档, 然后	与我对话.		◎ 你好					
上传文档	0		你好!根据你	是供的信息,我理解 Mist AI 是─	一个驱动无线和无线接入点的。	AI 系统,它能够与		
Drag and drop file Limit 200MB per file PPTX, PNG, JPG, JP	es here e • PDF, TXT, DOCX, EG, BMP		第三万解决万部 作能力。同时 有什么具体的	案一键集成。这些接入点可以验 ,通过 vBLE 和物联网 (loT) 技术 问题吗?	动 Wi-Fi 设备,确保业务连续 ,它可以提升户外环境下的撕	性,并提升网络操 操作效率。请问你		
Browse files			⑥ AIOPs是啥					
选择已保存的知识库			_					
No options to sele	ect. 892 Y		AIOPs (Aruba	的Al Operations)是一种由Aruba	a Central驱动的AI技术,它消降	余了需要手动排除		
导入知识库	添加知识库		政障的任务, 优化将网络容:	将常见网络敌障的平均解决时间 量提升25%。Aruba的下一代AI拐	IST短了90%,开可以通过基于 这术采用以网络和用户为中心的	-对等比较的配置 的特有分析		
保存知识库	删除知识库		References			~		
清除聊天记录	移除选中文档							
重命名知识库			Your message			>		
1. 现代化网络-技术	洞察报告.docx							

6. 问题记录

6.1 问题1: 安装libncurses5依赖库时报错。

1. 问题描述:



2. 问题解决

卸载NV相关的包,dpkg-l|grep nvidia和sudo apt remove [包名称]。

6.2 问题2:克隆 Git 子模块时遇到了连接问题:git submodule update - -init报错。

1. 问题描述:

(sc7_venv) root@test-hpc-05:/home/lsc/SC7/LLM-TPU# git submodule update --init Cloning into '/home/lsc/SC7/LLM-TPU/models/Owen/demo_parallel/third_party/abseil-cpp'... fatal: unable to access 'https://github.com/abseil/abseil-cpp.git/': Failed to connect to github.com port 443 after 130808 ms: Conn ection timed out fatal: clone of 'https://github.com/abseil/abseil-cpp.git' into submodule path '/home/lsc/SC7/LLM-TPU/models/Owen/demo_parallel/thi rd_party/abseil-cpp' failed Failed to clone 'models/Owen/demo_parallel/third_party/abseil-cpp'. Retry scheduled Cloning into '/home/lsc/SC7/LLM-TPU/models/Owen/demo_parallel/third_party/re2'... fatal: unable to access 'https://github.com/abseil/abseil-cpp.git': Failed to connect to github.com port 443 after 129709 ms: Conn ection timed out fatal: unable to access 'https://github.com/abseil/abseil-cpp.git/': Failed to connect to github.com port 443 after 129709 ms: Conn ection timed out fatal: clone of 'https://github.com/abseil/abseil-cpp.git' into submodule path '/home/lsc/SC7/LLM-TPU/models/Owen/demo_parallel/thi fatal: clone of 'https://github.com/abseil/abseil-cpp.git' into submodule path '/home/lsc/SC7/LLM-TPU/models/Owen/demo_parallel/thi fatal: clone of 'https://github.com/abseil/abseil-cpp.git' into submodule path '/home/lsc/SC7/LLM-TPU/models/Owen/demo_parallel/thi failed to clone 'models/Owen/demo_parallel/third_party/abseil-cpp' a second time, aborting (sc7_venv) root@test-hpc-05:/home/lsc/SC7/LLM-TPU# git submodule update --init Cloning into '/home/lsc/Owen/demo_parallel/third_party/abseil-cpp'... Submodule path 'models/Owen/demo_parallel/third_party/abseil-cpp'... Submodule path 'models/Owen/demo_parallel/third_party/abseil-cpp'... Submodule path 'models/Owen/demo_parallel/third_party/abseil-cpp': checked out '08821bd037990c18d44fda1691211e73835bf214' Submodule path 'models/Owen/demo_parallel/third_party/re2': checked out '08423ff189980a33d4a0c6fa1201aa0b3b8bab4a'

2. 问题解决

重试几遍解决。

6.3 问题3:执行多芯推理报内存分配错误

1. 问题描述:



2. 问题解决

模型加载过程中无缘无故突然中断,可以运行ulimit -HSn 65536增加系统资源解决。

6.4 问题4:执行4芯推理,程序执行一半被强制终止

1. 问题描述:

Question: hello

Answer: python3: /home/lsc/SC7/LLM-TPU/models/Qwen2/python_demo_parallel/chat.cpp:81: void Qwen::net_launch(const string &, std::vector<bm_tensor_s>&, std::vector<bm_tensor_s>&, int): Assertion `ret' failed. Aborted (core dumped)

查看bm-smi,发现2,3,4,5芯片Fault异常。

Mon [©] Sep 9 16:4	13:35 2024	林少日	<u>職 1892</u>		林少聪 1892		林少聪 1892	林少期	₃ 1892
Lib Version:	0.5.1	D	river	Version:	0.5.1	02			-
card Name 12V_ATX MaxP	Mode boardP Mincl	SN k Maxclk	TF Fan Bu	'U boardT s-ID	chipT Status	TPU_P Currclk	TPU_V ECC c TPU_C	CorrectN Memory-Usaç	Tpu-Util je
0 SC7-224T 8648mA 300W	PCIE HQDZW 103W 25M	======================================	078 0 N/A 00	34C 90:3d:00.0	43C Fault	5.1W 875M	835mV OFF 6.1A	N/A 81MB/14787	100% MB
##3/90 -			 1 00 _{د 10}	44C 0:3e:00.0	46C Fault	3.5W 875M	843mV OFF 4.2A	N/A 81MB/14787	100% /MB
1892			 2 00	46C 0:3f:00.0	48C Fault	3.5W 875M	843mV OFF 4.2A	N/A 81MB/14787	100% /MB
1892			- 3 90 د _{ەل ش}	41C 00:40:00.0	45C Fault	5.1W 875M	836mV OFF 6.1A	N/A 81MB/14787	100% /MB
林少聪 1892			4	43C 0:41:00.0	48C Fault	3.5W 875M	843mV OFF 4.1A	N/A 81MB/14787	100% MB
1#2 1892			्र ¹⁸⁹² 00	49C 0:42:00.0	48C Fault	3.5W 875M	843mV OFF 4.2A	N/A 81MB/14787	100% MB
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1892 1892	林少聪 1892	林少	7 0€	50C 0:44:00.0	48C Fault	5.3W 875M	835mV OFF 6.3A	N/A 81MB/14787	100% MB
+		-1892 214				1992 - 1992 -		N2-12-12-92	
Processes: TPU-ID	PID Proce	ss name	18 ⁹²					TPL Usa	J Memory age

2. 问题回复:

本地测试0,1,2,3也不行。按照最新回复解决,不过吞吐性能会下降,加载时间也多了很多(详见第3节测试记录)。

锐捷网络-算能产品交流	5 (14)	4 – U		算能-吴偌灏			
	And a set of the set o			4芯模型跑不了的	问题可以这样		
				林少聪:我试了另外 芯的还是跑不了,跟	4个好的芯,2芯的模型 V模型有关?	2能跑, 4	
	我过了早幼人行的太 2太的横	刑能购 1款的		算能-吴偌灏			
算能-吴诺薇 这个模型我试了0123	3, 是正常的		O 18 1892	1.芯片跑挂之后, allreduce_reg_in 2.跑4芯模型需要测 libbmrt.so.1.0和	需要重置寄存器,) iti这个程序 对驱动稍作修改:把 libbmrt.a复制到/op	运行 5 pt/	
算能-吴偌灏				sophon/libsoph	on-current/lib/		
这个问题找们有卜				算能-吴偌灏			
	以下是新消息	拉0,1,5,7能跑吗 > 🧾	- Julie 1892	debug.zip 20.7M			
算能-吴偌灏				892 微信网页版			
也不行							

6.5 问题5:添加知识库时,报内存访问错误

1. 问题描述:



2. 问题解决:

安装新版本sail解决。

		林少 <u>期 1893</u>	试了都在dev 况都不行,游	/0, 跟一 添加到知道	个dev0,一个 只车进程都会	dev1,两 退出	钟情	
		林山					林少聪 1892	
	算能-吴偌灏							
1929 1 929 1928 1852	sail版本有 doc.soph docs_late zh/html/1	点老,试试 go.com/sd st_release/ l build.htm	重新安装sail: k-docs/v24.0 docs/sophor nl#python3w	cs/				
		林少聪 1892	林少聪 1892					

6.6 问题6: 自定义数据集进行推理,报400 bad Request

1. 问题描述:

INF0:	127.0.0.1:57778	- 10	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57790	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57792 ²	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57808	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57814	- **	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57828	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57834	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57746	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57748	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	
INF0:	127.0.0.1:57762	- "	'P0ST	/v1/completions	HTTP/1.1"	400	Bad Request	

