

Heptathlon Women

Heptathlon Women Final, Standings after :4 events																			
Rank	ID	Name	Team	Total	100H	Pnts	HJ	Pnts	SP	Pnts	200	Pnts	LJ	Pnts	JT	Pnts	800	Pnts	
1	604	AHOUANWANOU Odile	BEN	5756	13.82	1004	1.70	855	14.13	803	24.73	912	5.96	837	42.29	711	2:34.80	634	
2	933	VERSTER Shannon	RSA	5329	14.44	917	1.73	891	10.46	560	25.84	811	5.45	686	38.17	632	2:19.37	832	
3	1045	NADA Choundi	TUN	5117	14.81	867	1.55	678	12.40	688	26.76	732	5.91	822	38.39	636	2:29.94	694	
4	857	PETERSEN Kemi	NGR	4970	14.47	913	1.49	610	10.88	587	25.09	879	5.40	671	33.33	540	2:23.98	770	
5	641	MAFOGANG TENKEU Adele	CMR	4709	15.83	735	1.58	712	9.43	492	25.81	814	5.01	562	31.17	499	2:14.82	895	
6	785	BAH Aminata	MLI	3838	15.88	729	1.52	644	9.12	472	27.80	647	5.06	576	28.32	445	3:04.44	325	
7	664	ABDELHAMED Wedian	EGY	2717	15.17	819	1.61	747	10.03	531	28.14	620	DNS			0			
100m Hurdles Women Hep, W=+0.4 ; Official result																			
Rank	ID	Name	Team	Result	Info														
1	933	VERSTER Shannon	RSA	1.73	---	---	---	---	---	---	0--	---	0--	---	X0-	0--	XXX	891 P	
2	604	AHOUANWANOU Odile	BEN	1.70	---	---	---	---	---	---	---	0--	---	0--	0--	XXX		855 P	
3	664	ABDELHAMED Wedian	EGY	1.61	---	---	0--	---	---	---	0--	0--	XXX					747 P	
4	641	MAFOGANG TENKEU Adele	CMR	1.58	0--	---	0--	0--	0--	0--	XX0	XXX						712 P	
5	1045	NADA Choundi	TUN	1.55	---	---	---	0--	0--	0--	XXX							678 P	
6	785	BAH Aminata	MLI	1.52	0--	0--	0--	X0-	X0-	XXX								644 P	
7	857	PETERSEN Kemi	NGR	1.49	0--	---	0--	X0-	XXX										
High Jump Women Hep ; Official result																			
Pos	ID	Name	Team	Result	Rank	1m40	1m43	1m46	1m49	1m52	1m55	1m58	1m61	1m64	1m67	1m70	1m73	1m76	Info
0	933	VERSTER Shannon	RSA	1.73	1	---	---	---	---	---	---	0--	---	0--	---	X0-	0--	XXX	891 P
0	604	AHOUANWANOU Odile	BEN	1.70	2	---	---	---	---	---	---	---	0--	---	0--	0--	XXX		855 P
0	664	ABDELHAMED Wedian	EGY	1.61	3	---	---	0--	---	---	---	0--	0--	XXX					747 P
0	641	MAFOGANG TENKEU Adele	CMR	1.58	4	0--	---	0--	0--	0--	0--	XX0	XXX						712 P
0	1045	NADA Choundi	TUN	1.55	5	---	---	---	0--	0--	0--	XXX							678 P
0	785	BAH Aminata	MLI	1.52	6	0--	0--	0--	X0-	X0-	XXX								644 P
0	857	PETERSEN Kemi	NGR	1.49	7	0--	---	0--	X0-										XXX
Shot Put Women Hep ; Official result																			
Pos	ID	Name	Team	Result	Rank	1	2	3	Info										
7	604	AHOUANWANOU Odile	BEN	14.13	1	14.13	13.89	13.47	803 P										
6	1045	NADA Choundi	TUN	12.40	2	12.12	X	12.40	688 P										
5	857	PETERSEN Kemi	NGR	10.88	3	X	8.37	10.88	587 P										
4	933	VERSTER Shannon	RSA	10.46	4	10.37	10.11	10.46	560 P										
3	664	ABDELHAMED Wedian	EGY	10.03	5	X	10.03	9.03	531 P										
2	641	MAFOGANG TENKEU Adele	CMR	9.43	6	X	8.51	9.43	492 P										
1	785	BAH Aminata	MLI	9.12	7	8.24	9.09	9.12	472 P										
8	6	BOURAKBA Abdelmoumen	ALG	0.00															
Long Jump Women Hep ; Official result since 11:18																			
Pos	ID	Name	Team	Result	Rank	1	2	3	Info										
7	604	AHOUANWANOU Odile	BEN	5.96 2.3	1	5.72 3.7	5.94 2.1	5.96 2.3	837 P										
6	1045	NADA Choundi	TUN	5.91 1.4	2	5.19 4.7	5.76 3.7	5.91 1.4	822 P										
5	933	VERSTER Shannon	RSA	5.45 3.1	3	5.30 3.9	5.45 3.1	5.28 3.1	686 P										
4	857	PETERSEN Kemi	NGR	5.40 1.8	4	5.40 1.8	5.27 3.4	5.35 3.6	671 P										
3	785	BAH Aminata	MLI	5.06 2.5	5	4.95 2.5	5.06 2.5	4.97 3.0	576 P										
2	641	MAFOGANG TENKEU Adele	CMR	5.01 1.5	6	4.41 2.8	5.01 1.5	4.86 1.9	562 P										
Javelin Women Hep ; Official result since 11:18																			
Pos	ID	Name	Team	Result	Rank	1	2	3	Info										
7	604	AHOUANWANOU Odile	BEN	42.29	1	42.29	-	-	711 P										
6	1045	NADA Choundi	TUN	38.39	2	38.37	X	38.39	636 P										
5	933	VERSTER Shannon	RSA	38.17	3	38.17	X	-	632 P										
4	857	PETERSEN Kemi	NGR	33.33	4	32.19	33.24	33.33	540 P										
3	641	MAFOGANG TENKEU Adele	CMR	31.17	5	31.17	30.07	30.05	499 P										

Heptathlon Women Final, Standings after :4 events										
2	785	BAH Aminata	MLI	28.32	6	28.32	25.99	26.79	445 P	
800 meter Women Hep ; Official result since 17:04										
Lane	ID	Name	Team	Result	Info					
7	641	MAFOGANG TENKEU Adele	CMR	2:14.82	895 P					
5	933	VERSTER Shannon	RSA	2:19.37	832 P					
4	857	PETERSEN Kemi	NGR	2:23.98	770 P					
3	1045	NADA Choundi	TUN	2:29.94	694 P					
6	604	AHOUANWANOU Odile	BEN	2:34.80	634 P					
2	785	BAH Aminata	MLI	3:04.44	325 P					
1	664	ABDELHAMED Wedian	EGY	DNS	0 P					
200 meter Women Hep ; Participant list, Start at 16:40										
Lane	ID	Name	Team	Result	Info	Rank				
8	604	AHOUANWANOU Odile	BEN	24.73	912 P	1				
5	857	PETERSEN Kemi	NGR	25.09	879 P	2				
2	641	MAFOGANG TENKEU Adele	CMR	25.81	814 P	3				
6	933	VERSTER Shannon	RSA	25.84	811 P	4				
7	1045	NADA Choundi	TUN	26.76	732 P	5				
4	785	BAH Aminata	MLI	27.80	647 P	6				
3	664	ABDELHAMED Wedian	EGY	28.14	620 P	7				

High Jump Women Final

High Jump Women Final ; Official result since 17:33

ID	Name	PB	Team	Result	Rank	1m60	1m65	1m70	1m73	1m76	1m79	1m82	Info
719	YEBOAH Rose		GHA	1.79	1	---	0--	X0-	X0-	X0-	X0-	XXX	
831	ADESHINA Temitope		NGR	1.79	2	---	0--	0--	0--	X0-	XX0	XXX	
918	ROBSON Yvonne	1.77	RSA	1.79	3	0--	0--	0--	X0-	X0-	XX0	XXX	
803	SIBA Rhizlane	1.86	MAR	1.76	4	---	0--	0--	X0-	0--	XXX		
674	SEYAMA Erikah		SWZ	1.73	5	0--	0--	0--	0--	XXX			
893	DE CLERK Shanese	1.78	RSA	1.73	6	---	XX0	0--	0--	XXX			
903	JANSEN VAN RENSBURG Mia	1.75	RSA	1.73	7	0--	0--	X0-	X0-	XXX			
666	BISHER Ayten		EGY	1.70	8	0--	0--	X0-	XXX				
689	JACK Nyajuok Mach	1.76	ETH	1.60	9	0--	XXX						
722	BALLEY Fatoumata		GUI	0.00									
645	KOUOTCHE Kevine Linda		CMR	0.00		---	---	---					
101	TETNDAP NSANGO Aboubakar Sidick		CMR	0.00									
631	ZOUNGRANA Fatimata		BUR	0.00									
671	MAHMOUD Rana		EGY	0.00									
799	ALAOUI Fatima Zahra		MAR	0.00									

100m Hurdles Women Final

100m Hurdles Women Final, W=+4.0 ; Official result since 15:25						
Rank	Lane	ID	Name	PB	Team	Result
1	5	835	AMUSAN Tobi	12	NGR	12.57
2	4	769	MORRISON Ebony Leea	12.74	LBR	12.77
3	6	897	FOURIE Marione	12.82	RSA	12.93
4	1	626	KOALA Christiane Yasmine Marthe		BUR	12.99
5	7	986	MILLER Ashley	13.15	ZIM	13.30
6	3	775	FIADANANTSOA Sidonie	13.44	MAD	13.49
7	8	895	EILERD Charlize	13.59	RSA	13.99
	2	668	GABER Lina		EGY	DNF

400 meter Women Semi Final

400 meter Women Semi Final, Heat:1 of 2 ; Official result since 15:44							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	4	840	GEORGE Patience Okon	52.19	NGR	53.24	Q
2	6	744	MUTUA Veronica	52.97	KEN	53.80	Q
3	3	977	MINGILISHI Niddy	52.86	ZAM	53.97	Q
4	5	965	LENI Shida	52.17	UGA	54.05	q
5	7	910	MOLEPO Precious	52.84	RSA	54.29	q
6	1	611	BOTLOGETSWE Christine	53.66	BOT	55.06	
7	2	683	GEMECHU Tsige Duguma	53.83	ETH	56.23	
8	8	701	ZEMEDKUN Msgana Haylu	54.68	ETH	57.62	
400 meter Women Semi Final, Heat:2 of 2 ; Official result since 15:44							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	4	891	COETZEE Miranda	51.5	RSA	52.85	Q
2	3	782	SIMWAKA Asimenye	52.9	MAW	54.28	Q
3	7	612	JELE Lydia	53.40	BOT	54.42	Q
4	6	843	IDAMADUDU Praise	54	NGR	54.44	
5	5	610	BASELE Thomphang	54.09	BOT	55.90	
6	8	934	VILJOEN Marlie	53.33	RSA	56.28	
7	2	754	SHIKANDA Jacinta	53.97	KEN	56.78	
8	1	700	ZARAFO Amarech Zago	54.28	ETH	59.04	

400 meter Men Semi Final

400 meter Men Semi Final, Heat:1 of 3 ; Official result since 15:57							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	3	57	SCOTCH Leungo	45.59	BOT	46.66	Q
2	5	521	NENE Zakhiti	45.51	RSA	46.92	Q
3	4	581	NYAMBE Patrick Kakozi	45.87	ZAM	47.63	
4	6	409	ADEYEMI Sikiru	45.93	NGR	48.22	
5	1	392	RETIEF Andre Johannes	45.82	NAM	48.38	
6	8	274	SEEWUA William	46.57	KEN	48.81	
7	2	453	REALE El-mir	46.47	REU	50.07	
	7	463	DIOUF Cheikh Tidiane	46.13	SEN	DNS	
400 meter Men Semi Final, Heat:2 of 3 ; Official result since 15:57							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	3	2651	GLASSI Mohamed Farres		TUN	46.40	Q
2	5	582	SAMUKONGA Muzala	45.48	ZAM	46.49	Q
3	4	52	NGOZI Zibane		BOT	47.08	q
4	6	468	MENDY Frédéric		SEN	47.33	
5	1	426	NATHANIEL Samson	45.5	NGR	47.66	
6	8	565	ADOLI Haron	46.07	UGA	47.91	
7	7	387	GELDENHUYS Ivan Danny	46.27	NAM	48.24	
8	2	454	SAÏDI Fabrisio	47.83	REU	48.46	
400 meter Men Semi Final, Heat:3 of 3 ; Official result since 15:57							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	4	51	NDORI Bayapo	44.88	BOT	46.48	Q
2	3	385	BOCK Mahhad Alexander	45.8	NAM	46.72	Q
3	6	579	LUCHEMBE Kennedy	45.76	ZAM	46.74	q
4	2	247	COLLINS Gichana		KEN	47.14	
5	7	512	ISAACS Gardeo	46.22	RSA	47.69	
6	8	208	WEGI Yobsan Biru	45.89	ETH	47.96	
7	1	427	NNAMANI Johnson	45.6	NGR	48.21	
	5	528	SHEZI Tumisang	46	RSA	DNF	

Discus Men Final

Discus Men Final ; Official result since 17:28												
Pos	ID	Name	PB	Team	Result	Rank	1	2	3	4	5	6
8	537	VISSER Werner	59.25	RSA	61.80	1	X	55.27	58.81	60.42	56.96	61.80
7	511	HOGAN Victor	64.43	RSA	58.95	2	53.11	56.81	X	57.15	58.95	53.91
6	393	WILLIAMS Ryan		NAM	56.70	3	54.00	51.99	X	X	56.70	54.23
5	145	ABDELAZIZ Shehab		EGY	52.05	4	49.95	44.84	52.05	X	X	51.61
3	354	SOPHIE Christopher	0	MRI	50.93	5	46.34	47.20	X	50.93	X	X
4	6	BOURAKBA Abdelmoumen	57.16	ALG	50.48	6	X	X	47.88	X	47.22	50.48
1	8	KHENNOUSSI Oussama	56.52	ALG	47.58	7	30.02	X	46.65	X	X	47.58
2	71	KAMBOU Sié Fahige		BUR	46.79	8	X	46.79	X	X	X	X
0	540	PRINSLOO Francois		RSA	46.27	9	X	46.27	X			
0	430	OGUNDEJI Dotun	56	NGR	0.00							
0	445	UGWOKE Ebubechukwu	54	NGR	0.00							

1500 meter Women Final

1500 meter Women Final ; Official result since 16:17						
Rank	Lane	ID	Name	PB	Team	Result
1	10	732	CHEBET Winny	4.10.44	KEN	4:16.10
2	5	735	CHEPKIRUI Purity	4.10.38	KEN	4:16.28
3	4	702	ASEGU Ayal Dagnachew	04.10.00	ETH	4:16.45
4	3	731	CHEBET Brenda	4.10.69	KEN	4:17.25
5	11	963	CHEMUSTO Janat	4.13.46	UGA	4:21.36
6	2	935	VILJOEN Carina	4.20.07	RSA	4:21.65
7	8	660	ALI MOHAMED Souhra	4.18.20	DJI	4:21.66
8	9	960	ACIRU Knight	4.16.97	UGA	4:22.75
9	13	932	VERSTER Danielle	4.13.78	RSA	4:26.40
10	1	600	LOHALITH Anjelina Nadai		REF	4:33.74

100 meter Women Final

100 meter Women Final, W=+4.8 ; Official result since 16:16						
Rank	Lane	ID	Name	PB	Team	Result
1	6	1000	BASS Gina	11.08	GAM	11.06
2	5	825	AMINATOU Seyni Moumouni	11.05	NIG	11.09
3	4	901	HORN Carina	11.08	RSA	11.14
4	3	841	GODBLESS Tima	11.25	NGR	11.27
5	1	738	IMALI Maximilla		KEN	11.29
6	8	974	MALEKANI Quincy	11.32	ZAM	11.30
7	7	973	MAKUMBA Hellen	11.42	ZAM	11.50
	2	621	TSHOSA Oarabile	11.33	BOT	DNF

100 meter Men Final

100 meter Men Final, W=+4.5 ; Official result since 16:30						
Rank	Lane	ID	Name	Team	Result	Info
1	6	268	OMANYALA Ferninand	KEN	9.93	9.927
2	5	529	SIMBINE Akani	RSA	9.93	9.930
3	8	498	BRUINTJIES Henricho	RSA	10.01	
4	1	417	EKEVWO Raymond	NGR	10.03	
5	3	96	EMANUEL ALOBWEDE Eseme	CMR	10.06	
6	4	298	MATADI Emmanuel B	LBR	10.08	
7	2	338	BIBI Noa	MRI	10.14	
	7	389	HAINUCA Gilbert Maseko	NAM	DIS	

800 meter Men Semi Final

800 meter Men Semi Final, Heat:1 of 2 ; Official result since 16:46							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	6	10	MOULA Slimane		ALG	1:46.22	Q
2	1	257	KIPLAGAT Nicholas	1.47.22	KEN	1:46.51	Q
3	3	1	ABDENNOUZ Ramzi	1.45.52	ALG	1:46.67	Q
4	8	47	MASALELA Tshepiso	1.46.40	BOT	1:46.80	q
5	5	654	RIADHI Chimimmi		TUN	1:47.36	q
6	4	492	IDOW HASSAN Ali		SOM	1:49.24	
7	7	520	NCAMANE Jabulane	1.46.32	RSA	1:49.72	
8	2	209	WELDEGEBREL Efrem Mekonnen	1.47.15	ETH	1:49.81	
800 meter Men Semi Final, Heat:2 of 2 ; Official result since 16:46							
Rank	Lane	ID	Name	PB	Team	Result	Info
1	6	653	ABDESSALEM Ayovmi		TUN	1:48.14	Q
2	4	368	NABIL Oussama	1.44.25	MAR	1:48.54	Q
3	5	266	NGENY Elias	1.45.81	KEN	1:48.57	Q
4	2	187	ASHO Tolesa Bodena	1.47.08	ETH	1:49.34	
5	7	199	MULATA Bacha Morka	1.46.39	ETH	1:50.49	
6	3	569	DRADRIGA Tom	1.46.58	UGA	1:51.28	
7	8	517	MOHLOSI Kabelo	1.46.61	RSA	1:51.82	
8	1	386	DAM David	1.48.63	NAM	1:52.13	

Long Jump Men Final

Long Jump Men Final ; Official result since 18:36											
Pos	ID	Name	Team	Result	Rank	1	2	3	4	5	6
8	61	TSHIRELETSO Thalosang	BOT	7.82 3.9	1	7.61 3.9	7.82 3.9	7.82 3.9	X	X	X
7	513	JOHNSON Cheswill	RSA	7.78 3.9	2	X	X	7.78 3.9	X	X	X
4	465	FAYE Amath	SEN	7.70 3.6	3	7.39 3.9	X	X	X	7.70 4.0	7.70 3.6
1	343	CUPIDON Adel	MRI	7.60 3.3	4	X	X	7.32 3.9	7.60 3.3	7.57 3.4	X
5	451	RANDRIANASOLO Yann	REU	7.57 4.0	5	7.40 3.9	X	7.22 3.9	X	7.57 4.0	7.37 3.6
6	49	MONAIWA Thapelo	BOT	7.55 3.8	6	7.38 3.9	7.25 3.9	7.43 3.9	7.55 3.8	6.84 3.2	6.99 3.6
3	34	N'TIA Roméo	BEN	7.44 4.0	7	6.81 3.9	X	7.38 3.9	7.05 4.3	7.44 4.0	X
2	278	YEGO Isaac	KEN	7.37 3.9	8	7.27 3.9	7.36 3.9	7.37 3.9	X	X	X
0	42	CHIBANE Norman	BOT	7.29 3.9	9	7.29 3.9	7.06 3.9	7.21 3.9			
0	470	MENDY Lys	SEN	7.21 3.9	10	7.04 3.9	7.21 3.9	7.01 3.9			
0	561	SIMKLINA Bassimsiwé Lazare koffi	TOG	7.19 3.9	11	7.19 3.9	X	X			
0	535	VAN VUUREN Jovan	RSA	7.15 3.9	12	X	X	7.15 3.9			
0	100	YINRA Appolinaire	CMR	7.08 3.9	13	X	6.62 3.9	7.08 3.9			
0	236	CONDE Emile	GUI	6.02 3.9	14	5.92 3.9	X	6.02 3.9			

5000 meter Women Final

5000 meter Women Final ; Official result since 17:28						
Rank	Lane	ID	Name	PB	Team	Result
1	10	730	CHEBET Beatrice	15.30.15	KEN	15:00.82
2	1	678	AZALE Fentaye Belayneh	15.41.10	ETH	15:01.89
3	6	750	NYAGA Caroline	15.32.11	KEN	15:05.34
4	9	695	SHAREW Melknat Wudu	15.46.66	ETH	15:08.65
5	8	962	CHELANGAT Sarah	15.59.40	UGA	15:37.68
6	12	921	SEMENYA Caster	15.31.50	RSA	16:03.24
7	5	902	JACOBS Kyla	15.36.56	RSA	16:16.06
8	4	963	CHEMUSTO Janat	15.54.54	UGA	16:38.76
9	11	648	BOY FINI SARABIRO Elza Belvia nice		CAF	19:15.02

110m Hurdles Men Final

110m Hurdles Men Final, W=+4.8 ; Official result since 17:28						
Rank	Lane	ID	Name	PB	Team	Result
1	4	3	BOUANANI Amine	13.52	ALG	13.26
2	5	348	LARARAUDEUSE Jeremie		MRI	13.55
3	3	496	ALKANA Antonio		RSA	13.59
4	6	300	ZAZA Wellington	13.53	LBR	13.69
5	2	406	ADEJOYE Oyeniji	13.79	NGR	13.82
6	1	263	MUKHOBE Wiseman	13.8	KEN	13.85
7	8	400	BADAMASSI Saguirou	13.71	NIG	13.93
8	7	160	SAYED Youssef		EGY	14.15

4 x 400 meter Mixed Final

4 x 400 meter Mixed Final ; Official result since 18:14							
Rank	Lane	ID	Name	Team	Cat	Result	Info
1	3	43	Botswana	BOT	Senior	3:21.85	
2	4	432	Nigeria	NGR	Senior	3:22.38	
3	5	247	Kenya	KEN	Senior	3:22.75	
4	6	505	South Africa	RSA	Senior	3:23.06	
5	2	991	Zambia	ZAM	Senior	3:27.06	
6	7	189	Ethiopia	ETH	Senior	3:31.50	
	8	607	Gambia	GAM	Senior	DIS	DQ
	1	0	Madagascar			DNS	

4 x 100 meter Women Heats

4 x 100 meter Women Heats, Heat:1 of 2 ; Official result since 18:31						
Rank	Lane	ID	Name	Team	Result	Info
1	7	973	Zambia	ZAM	44.36	Q
2	6	905	South Africa	RSA	45.21	Q
3	4	776	Madagascar	MAD	47.10	Q
4	2	629	Burkina Faso	BUR	47.79	q
	5	816	Namibia	NAM	DIS	
	3	0	Ghana		DNS	
4 x 100 meter Women Heats, Heat:2 of 2 ; Official result since 18:31						
Rank	Lane	ID	Name	Team	Result	Info
1	2	615	Botswana	BOT	45.02	Q
2	4	1004	Gambia	GAM	45.40	Q
3	5	742	Kenya	KEN	45.60	Q
4	6	830	Nigeria	NGR	46.30	q
	3	688	Ethiopia	ETH	DNF	

4 x 100 meter Men Heats

4 x 100 meter Men Heats, Heat:1 of 2 ; Official result since 18:49						
Rank	Lane	ID	Name	Team	Result	Info
1	2	41	Botswana	BOT	39.32	Q
2	7	586	Zimbabwe	ZIM	39.75	Q
3	5	417	Nigeria	NGR	40.15	Q
4	4	353	Mauritius	MRI	40.64	q
5	3	204	Ethiopia	ETH	44.23	
	6	0	Seychelles		DNS	
4 x 100 meter Men Heats, Heat:1 of 2 ; Official result since 18:49						
Rank	Lane	ID	Name	Team	Result	Info
1	5	251	Kenya	KEN	39.42	Q
2	6	498	South Africa	RSA	40.99	Q
3	7	179	Swaziland	SWZ	41.25	Q
4	3	124	Democratic Congo	COD	41.59	q
5	4	603	Gambia	GAM	41.93	
	2	0	Burkina Faso		DNS	